



Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name	: Dye Sublimation Ink Sb52 Normal Reddish Black
Product Code	: SPC-0584NRK, SPC-585NRK
General Use	: Ink jet printing ink
Product Description	: Sublimation Ink
MSDS Number	:031-34W13K3C
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd
Address	: 2182-3 Otsu, Shigeno, 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.	: 1-678-730-0100
Emergency Telephone No.	: +81-268-64-2413

2. Hazards Identification

Emergency Overview	: Black liquid. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.
Potential Health Effects	
Inhalation	: Intentional exposure to ink vapors may cause respiratory irritation.
Eye Contact	: Ink contact with eye may be mildly irritating.
Skin Contact	: Ink contact with skin may cause irritation, swelling, or redness.
Ingestion	: May cause upset stomach.
Carcinogens	: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.
Potential Environmental Effects	: Not available.



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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Disperse dye	Trade Secret	Trade Secret	Trade Secret
2	Isopropyl alcohol	<1	67-63-0	C ₃ H ₈ O
3	Aqueous ammonia	<5	1336-21-6	NH ₄ OH
4	Diethylene glycol	<10	111-46-6	C ₄ H ₁₀ O ₃
5	Glycerol	10-20	56-81-5	C ₃ H ₈ O ₃
6	Organic materials	<5	Trade Secret	Trade Secret
7	Water	balance	7732-18-5	H ₂ O

OSHA Hazardous : Not hazardous.

Components

(29 CFR 1910.1200)

4. First Aid Measures

Inhalation : If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

Eye Contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Skin Contact : Wash thoroughly with soap and water.

Ingestion : Rinse mouth and then drink plenty of water.

Protection To First-Aiders : Not available.

5. Fire Fighting Measures

Flammable Properties : Not flammable.

Extinguishing Media : water spray, dry extinguishing media, foam, carbon dioxide

Fire Fighting : Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

Instructions

6. Accidental Release Measures

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Personal Precautions : Wear appropriate personal protective equipment.

Cleaning up Methods : Avoid release to the environment.

Absorb spillage with an inert material, then place in a chemical waste container for later safe disposal. Earth may be shoveled to contain spillage and to avoid contamination of sewers and water courses.

7. Handling And Storage

Handling : Do not breathe (dust, vapor, mist, gas).

Avoid contact with skin, eyes, or clothing.

Wash thoroughly after handling.

Destroy contaminated shoes in proper manner.

Storage : Keep container tightly closed and in a cool place.

Protect from temperatures below: 0 degree C.

Protect from temperatures above: 40 degree C.

8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA	STEL	Ceiling	Skin	SEN
1	Isopropyl alcohol	ACGIH TLV	200ppm	400ppm	N.E	N.E	N.E
2	Aqueous ammonia	ACGIH TLV	25ppm	N.E	N.E	N.E	N.E
3	Glycerol	ACGIH TLV	10mg/m3	N.E	N.E	N.E	N.E

Exposure Controls

Occupational Exposure Controls

Engineering Controls : It is better to place local exhaust equipment.

Personal Protection

Respiratory Protection : Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.



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Hand Protection : Chemical resistant protective gloves.

**Gloves**

Eye Protection : Tightly fitting safety goggles(chemical goggles).

**Safety Glasses**

Skin Protection : To prevent ANY contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

**Protective Apron****Boots****Gloves****Full Suit**

Environmental Exposure Controls

: Not available.

9. Physical And Chemical Properties

Appearance	- Physical state	: liquid
	- Colour	: Black
Odour		: product specific
pH		: 7.0~9.5
Boiling Point / Boiling Range		: 100 degree C Water
Melting Point / Merging Range		: Not available.
Flash Point		: Not applicable.
Flammability(solid, gas)		: Not available.
Specific Gravity		: 1.00~1.20
Solubility		: Not available.
Water solubility		: complete
Viscosity		: 3.0~5.0mPa.s(20 degree C)

10. Stability And Reactivity

Conditions To Avoid : High and freezing temperatures.



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Stability : Stable
Materials To Avoid : Not available.
Hazardous Reactions/ : No hazardous decomposition products if stored and handled as
Decomposition Products prescribed/indicated.

11. Toxicological Information

Acute Toxicity : Not available.
Eye Irritation : May cause eye irritation.
Skin Irritation : May cause skin irritation.
Sensitization : Not available.
Mutagenicity : Not available.

12. Ecological Information

Ecotoxicity : Not available
Persistence And : Not available.
Degradability
Bioaccumulative : Not available.
Potential
Other Adverse Effects : Not available.

13. Disposal Considerations

: Must be dumped or incinerated in accordance with 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

Not classified as a dangerous good under transport regulations.
(USDOT / IMDG / IATA / ICAO)



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15. Regulatory Information

OSHA Status : Not hazardous.
TSCA Status : released / listed
SARA TitleIII
Section 311/312 : Not hazardous.
(40 CFR 370)

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.

It relates only to the specific material designated herein, and dose not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

Revision history

Version	Date	Content
1.0	Mar 19, 2009	First issue.