

Black

MSDS No.031-33W08KC First issue: July 31, 2007

Revised : Jun 16, 2008

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### Material Safety Data Sheets

### 1. Product and Company Identification

Product Name : Dye Sublimation Ink 51 Black

Product Code : SPC-0493K

General Use : Ink jet printing ink
Product Description : Sublimation ink
MSDS Number :031-33W08KC

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 : Wear full face shield if splashing hazard exists.

Wear protective clothing.

Allowed uses: hard surface cleaners; textile printing inks.

Use with local exhaust ventilation.

Potential Health Effects : Virtually nontoxic after a single ingestion.

Inhalation : Not available.Eye Contact : Not available.Skin Contact : Not available.Ingestion : Not available.

Carcinogens : No ingredients are listed by OSHA, IARC, or NTP as known or

suspected carcinogens.

HMIS III Rating (scale 0-4)

Health = 1

Flammability= 0 Physical hazard = 0



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### 3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical
				Formula
1	Water	>=70.0-<=80.0	7732-18-5	$_{\mathrm{H_2O}}$
2	Polyethylene glycol	>=1.0-<=10.0	25322-68-3	$(C_2H_4O)nH_2O$
3	Glicerina-525	>=1.0-<=10.0	56-81-5	$\mathrm{C_3H_8O_3}$
4	Proprietary polymer additive	>=1.0-<=5.0	Trade Secret	Trade Secret
5	Trade secret 489909-5312-P-CH	>=1.0-<=5.0	Trade Secret	Trade Secret

OSHA Hazardous : Not hazardous

Components

(29 CFR 1910. 1200)

#### 4. First Aid Measures

Inhalation : Remove the affected individual into fresh air and keep the person

calm.

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. Do not induce

vomiting. Immediate medical attention required.

Protection To First-Aiders : Not available

Note To Physician : Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

### 5. Fire Fighting Measures

Flammable Properties : Flash point : >100 degree C (DIN 51758)

Autoignition: >200 degree C (DIN 51794)

Flammability: does not ignite

Extinguishing Media : water spray, dry extinguishing media, foam

Fire Fighting : Wear a self-contained breathing apparatus in confined areas or

Instructions when exposed to combustion products.



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#### 6. Accidental Release Measures

Personal Precautions : Use personal protective clothing.

Environmental : Do not discharge into drains/surface waters/groundwater.

precautions

Cleanup : Spills should be contained, solidified, and placed in suitable

containers for disposal.

For small amounts: Pick up with absorbent material(e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in

accordance with regulations.

For large amounts: Pump off product.

### 7. Handling And Storage

Handling : No special measures necessary provided product is used correctly.

Storage : Protect from temperatures below: 0 degree C

Protect from temperatures above: 40 degree C

### 8. Exposure Controls / Personal Protection

**Exposure Controls** 

Occupational Exposure Controls

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

Components with Glicerina-525 OSHA PEL 5mg/m3 Respirable fraction; PEL

workplace control 15mg/m3 Total dust

paramenters ACGIH TWA value 10mg/m3 Mist

Personal Protection

Respiratory : Wear respiratory protection if ventilation is inadequate. Breathing

Protection protection if breathable aerosols/dust are formed.





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Hand Protection : Chemical resistant protective gloves.



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



Skin Protection : To prevent ANY contact, wear impervious clothing such as gloves,

apron, boots, or whole body suits made from neoprene, as appropriate.









**Environmental Exposure Controls** 

: Not available.

### 9. Physical And Chemical Properties

Appearance - Physical state : liquid

- Colour : black

Odour : product specific pH : 7-9 (20 degree C)

Boiling Point / Boiling Range : approx. 100 degree C

Melting Point / Merting Range : Not available
Flash Point :>100 degree C
Flammability(solid, gas) : does not ignite

Vapour Pressure : approx. 23mbar (20 degree C)

Relative density : approx. 1.05g/cm3

Solubility : soluble

Solvent(s): organic solvents

Water solubility : dispersible

Viscosity : 2.5-3.5mPa.s (20 degree C)

VOC : < 2.5 g/l



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### 10. Stability And Reactivity

Conditions To Avoid : Not available.

Stability : No hazardous reactions when stored and handled according to

instructions.

The product is chemically stable.

Materials To Avoid : Not available.

Hazardous Reactions/ : No hazardous reactions when stored and handled according to

Decomposition Products instructions. The product is chemically stable.

Hazardous decomposition products: No hazardous decomposition

products if stored and handled as prescribed/indicated.

### 11. Toxicologocal Information

Acute Toxicity : Oral: LD50/rat: > 2,000mg/kg

Eye Irritation : Rabbit: non-irritant (OECD Guideline 405) Skin Irritation : Rabbit: non-irritant (OECD Guideline 404)

Sensitization : Not available.

Mutagenicity : Not applicable.

Others : The product has not been tested. The statements on toxicology have

been derived from the properties of the individual components.

#### 12. Ecological Information

Ecotoxicity : Acute and prolonged toxicity to fish:

golden orfe/ LC50 (96 h): >100mg/l

Toxicity to microorganisms:

OECD Guideline 209 bacterium/EC50: >1,000 mg/l

Inhibition of degradation activity in activated sludge is not to be

anticipated during correct introduction of low concentrations.

Persistence And : Not available.

Degradability

Bioaccumulative : Not available.

Potential



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Other Adverse Effects : Adsorbable organically-bound halogen (AOX): 0%

### 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.

RCRA: None

### 14. Transport Information

Not classified as a dangerous good under transport regulations.

(USDOT / IMDG / IATA / ICAO)

#### 15. Regulatory Information

OSHA Status : Not hazardous.
TSCA Status : released / listed

SARA TitleIII

Section 311/312 : Not hazardous.

(40 CFR 370)

State regulations <u>CAS Number</u> <u>Chemical name</u> <u>State RTK</u>
State RTK 56-81-5 Glicerina-525 MA, PA

Others : This product contains a chemical(s) known to the state of California

to cause cancer and birth defects or other reproductive harm.

### 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.



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### Revision history

Version	Date	Item No.	Content
1.0	July 31, 2007		First issue
2.0	Oct 19, 2007	1	Change of address
3.0	Jun 16, 2008	3, 8, 9, 15	Add