

MSDS No.031-34W04KC First issue: Apr 11, 2008

Revised: Page 1 of 6

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name : Reactive Dye 2 Ink Black

Product Code : SPC-0357K-A, 0393K-A

General Use : Ink jet printing ink

Product Description : Reactive Dye ink

MSDS Number :031-34W04KC

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 : Ink component is a black liquid unlikely to cause harmful under

normal conditions of handling and use. 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 irritating.

Skin Contact : Ink contact with skin may cause irritation, swelling, or redness.

Ingestion : May cause upset stomach.

Carcinogens : None known.

Potential Environmental : Not available.

Effects



MSDS No.031-34W04KC First issue: Apr 11, 2008

Revised: Page 2 of 6

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical
				Formula
1	Diethylene glycol	5-15	111-46-6	C ₄ H ₁₀ O ₃
2	Polyxythylene alkyl ether	<5	Trade Secret	Trade Secret
3	Monochlorotriazine reactive Dye	5-15	Trade Secret	Trade Secret

4. First Aid Measures

Inhalation : Remove subject to ventilated fresh air.

Consult physician if necessary.

Eye Contact : Immediately flush with room temperature, low pressure, and clean

water for at least 15 minutes. Seek medical attention if eye

irritation continues.

Skin Contact : Wash surface areas with soap and water. Wash soiled clothing before

rewearing. Consult a physician if irritation continues.

Ingestion : Wash out mouth with water and give 200~300 ml(half a point) of

water to drink. Do not induce vomiting. Obtain medical attention if

ill effects occur.

Protection To First-Aiders : Not available.

5. Fire Fighting Measures

Flammable Properties : Not flammable.

Extinguishing Media : Dry chemical or carbon dioxide.

Fire Fighting : No special fire fighting procedures are required other than

Instructions breathing apparatus. No special explosion hazards are known.

6. Accidental Release Measures

Land Spill : If a spill occurs, use sponges to wipe-up ink, and then rinse with

damp cloth. Place waste in closed container for disposal.

Water Spill : Do not dispose of waste to the sewer.



MSDS No.031-34W04KC First issue: Apr 11, 2008

Revised: Page 3 of 6

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

7. Handling And Storage

Handling : Keep out of reach of children and do not drink ink. Do not store the

cartridge in high or freezing temperatures. Keep cartridge out of

direct sunlight.

Storage : Do not dismantle cartridge. Do not store cartridges with oxidizing

agents or explosives. Make sure cartridge is dry before insertion into

printer housing.

8. Exposure Controls / Personal Protection

Exposure Limit Values : Diethylene glycol TWA:23ppm, 101mg/m³

Exposure Controls : Where suitable engineering controls are not fitted or are inadequate,

wear suitable protective equipment.

Personal Protection

Protection

Respiratory : Not required under suitable use as setting the cartridge on the

printer; however, self-contained breathing apparatus or organic

canister mask is sufficient when used for work.

Hand Protection : Not required under suitable use as setting the cartridge on the

printer; however, wearing gloves is sufficient.



Eye Protection : Not required under suitable use as setting the cartridge on the

printer; however, wearing safety goggles is sufficient.



Skin Protection : Not required under suitable use as setting the cartridge on the

printer; however, wearing gloves is sufficient.



Environmental Exposure Controls

: Not established.



MSDS No.031-34W04KC First issue: Apr 11, 2008

Revised: Page 4 of 6

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

9. Physical And Chemical Properties

Appearance - Physical state : liquid

- Colour : Black

Odour : None

pH : about 8.0 (20 degree C)

Boiling Point / Boiling Range : Not available.

Melting Point / Merting Range : Not available.

Flash Point : Not detected until 95 degree C

(closed cup, ASTM D3278)

Flammability(solid, gas) : Not available.

Relative density : 1.00-1.10 (20 degree C)

Solubility : Not available.

Water solubility : Complete

Viscosity : less then 5mPa · s (20 degree C)

VOC : 100 g/l

10. Stability And Reactivity

Conditions To Avoid : High and freezing temperatures.

Stability : Stable under temperature.

Materials To Avoid : Oxidizers and explosives

Hazardous Reactions/ : If involved in a fire, it may emit noxious and toxic fumes.

Decomposition Products

11. Toxicologocal Information

Acute Toxicity Oral LD₅₀ Dermal LD₅₀ Inhalant LC₅₀

No data available. No data available. No data available.

: High concentrations of mist may be irritant to the upper respiratory tract. Reactive dyes, of which this one type, have been associated with

respiratory sensitization.

Eye Irritation : Unlikely to cause eye irritation.

Skin Irritation : Unlikely to cause skin irritation.

Sensitization : It is not a skin sensitizer in animal tests.



MSDS No.031-34W04KC First issue: Apr 11, 2008

Revised: Page 5 of 6

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

Unlikely to cause skin sensitization.

Mutagenicity : Not available.

Carcinogenicity : Not available.

12. Ecological Information

Ecotoxicity : Expected to be of low toxicity to fish, based on a consideration of the

components.

Persistence And : No data available on the adverse effects of this ink on the

Degradability environment.

Bioaccumulative : No data available on the adverse effects of this ink on the

Potential environment.

Other Adverse Effects: No data available.

13. Disposal Considerations

Disposal should be in accordance with federal, state, and local requirements.

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

14. Transport Information

Not regulated as a Hazardous Material.

15. Regulatory Information

U.S. DOT Hazard Class Regulated: No

U.S. OSHA Inhalation Hazard: No

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



MSDS No.031-34W04KC First issue: Apr 11, 2008

> Revised: Page 6 of 6

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information.

Revision history

Version	Date	Content
1.0	Apr 11, 2008	First issue.