

Safety Data Sheets

1. Identification

Product Name	: Reactive Dye 4 Ink Black
Order No.	: SPC-0357K-C
General Use	: Ink jet printing ink
Product Description	: Reactive Dye Ink
SDS Number	: 037-W040484
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.	: +1-678-730-0700
Emergency Telephone No.	: +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Not classified

Acute Toxicity – Dermal : Not classified

Acute Toxicity – Inhalation : Not classified

Skin Corrosion / Irritation : Not classified

Eye Damage / Irritation : Category 2

Sensitization – Respiratory : Not classified

Sensitization – Skin : Category 1

Germ Cell Mutagenicity : Not classified

Carcinogenicity : Not classified

Toxic to Reproduction : Category 2

Specific Target Organ Toxicity : Not classified

(Single Exposure)

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Specific Target Organ Toxicity (Repeated Exposure) : Category 1 (kidney, liver)

Aspiration Hazard : Not classified

Environmental Hazards

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

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

[GHS Label Elements]

Symbol



Signal Word

Danger

Hazard Statements

H317 May cause an allergic skin reaction

H319 Cause serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs (kidney, liver) through prolonged or repeated exposure

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe 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]

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell

P321 Specific treatment (see 4-Response on our website/SDS URL:
www.mimaki.co.jp/sds).

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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

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[Storage]

P405 Store locked up.

[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	Water	<70	7732-18-5
2	Proprietary organic materials	25-30	Trade Secret
3	Colorants	15-20	Trade Secret
4	Diethylene glycol	5-10	111-46-6

4. First Aid Measures

- Inhalation : Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
- 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 : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
- Ingestion : Seek medical advice; and attention if stomach continues to be upset.
- Most important symptoms and effects, both acute and delayed : Skin: Ink contact with skin may cause irritation, swelling or redness.
- Indication of any immediate medical attention and special treatment needed : Not necessary

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5. Fire Fighting Measures

Flammable Properties	: Not available
Extinguishing Media	: Dry chemical , carbon dioxide or water.
Unsuitable extinguishing media:	: None
Fire Fighting Instructions	: Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. Accidental Release Measures

Personal Precautions	: Avoid contact with eyes. Do not rub eyes with hands during cleanup. Use proper ventilation. Wash hands thoroughly after cleaning up spill or leak.
Environmental precautions	: Do not release to sewer, surface- or ground-water.
Methods and material for containment and cleaning up	: Use sponges to wipe-up ink. Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water. Do not dispose of waste to the sewer.

7. Handling and Storage

Handling	: Keep out of reach of children and do not drink ink. Do not dismantle cartridge. Do not breathe (dust, vapor, mist, gas). Avoid contact with skin, eyes, or clothing. In the case of skin contact, wash with soap and water.
Storage	: Keep cartridge out of direct sunlight. Do not store the cartridge with oxidizing agents or explosives. Make sure cartridge stored in a dry area.
SPECIFIC USES	: Not specified

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8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA
1	2,2-Oxybisethanol (CAS No. 111-46-6)	USA: OELs (WEELs)	WEEL 8-hour TWA is : 10 mg/ m ³
		Australia: OELs	The Time Weighted Average is: 23 ppm (100 mg/m ³).

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Proper ventilation, in prevention

Personal Protection

Respiratory : Wear suitable respiratory protective equipment.

Protection



Vapor
Respirator

Hand Protection : Wear suitable hand protection.



Gloves

Eye Protection : Wear suitable eye/face protection.



Safety
Glasses

Skin Protection : Wear suitable glove and protective clothing.



Protective
Apron

Environmental Exposure Controls

: Not established

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9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: Black
Odor		: Slightly
pH		: Not available
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Flash Point		: Not available
Auto ignition temperature		: Not available
Flammability (Solid, Gas)		: Not applicable
Relative Density 又は Specific Gravity		: Not available
Water Solubility		: Soluble
Viscosity		: Less than 5 mPa·s

10. Stability and Reactivity

Conditions to Avoid	: High and freezing temperatures
Stability	: Stable under normal temperature
Materials to Avoid	: Oxidizers and explosives
Hazardous Reactions /	: Not available
Decomposition Products	

11. Toxicological Information

Acute Toxicity : Not classified as a product. (HCS Classification)

Oral LD50 (rat)	Dermal LD50 (rat or rabbit)	Inhalation LC50
>2000mg/kg	Not available	Not available

Eye Irritation : Category 2 as a product. (HCS Classification)

Skin Irritation : Not available

Sensitization : Category 1 as a product. (HCS Classification)

Mutagenicity : Negative (by Ames test)

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Carcinogenicity	: Not meet the criteria for classification according to EU Directive 1999/45/EC Not contain any substances listed in IARC Monographs (1,2A and 2B)
Reproductive and Developmental Toxicity	: Category 2 as a product. (HCS Classification)
Specific Target Organ Toxicity (Repeated Exposure)	: Category 1 (kidney, liver) as a product. (HCS Classification)

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	: Not available
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.

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.

UN Number	: Not applicable
UN Proper Shipping Name	: Not applicable

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Transport hazard class(es) : Not applicable
Packing Group(PG) : Not applicable
Environmental hazards : Not applicable
Special precautions for user : Not applicable

15. Regulatory Information

TSCA Section 4(a) Final Test Rules Regulated : Not regulated
TSCA Section 5 Significant New Use Rule Regulation : Not regulated
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR) : Not regulated
TSCA Section 12(b) One-Time Export Notification Regulated : Not regulated
California Proposition 65 : Not regulated
Others : Please refer to any other federal, state and local regulations.

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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