



Product Name: Reactive Dye 3 Ink Grey
MSDS No.031-36W041C
First issue: May 17, 2010
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 3 Ink Grey
Product Code : SPC-0357GR-B, 0393GR-B
General Use : Ink jet printing ink
Product Description : Reactive Dye 3 ink
MSDS Number :031-36W041C
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 that may cause eye irritation. 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 : Not available.

Potential Environmental Effects : Not available.

Material Safety Data Sheets

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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Colorants	<5	Trade Secret	Trade Secret
2	Proprietary organic materials	35-40	Trade Secret	Trade Secret
3	Water	balance	7732-18-5	H ₂ O

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.
- 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 wearing again. Consult a physician if irritation continues.
- Ingestion : Seek medical advice; and attention if stomach continues to be upset.

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 breathing apparatus. No special explosion hazards are known.
- Instructions

6. Accidental Release Measures

- Personal Precautions : Eye or Skin protection required during clean-up. Use proper ventilation.
- Environmental precautions : Do not release to sewer, surface-or ground-water.
- Methods for cleaning up : If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not

Material Safety Data Sheets

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dispose of waste to the sewer. Wash hands with soap and water.

7. Handling And Storage

Handling	: Keep out of reach of children and do not drink ink. Do not dismantle cartridge.
Storage	: Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. 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 : Not established as inks.

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Not special measures required.

Personal Protection

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

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



Gloves

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



Safety Glasses

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



Protective Apron

Material Safety Data Sheets

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Environmental Exposure Controls

: Not established.

9. Physical And Chemical Properties

Appearance	- Physical state	: liquid
	- Colour	: Grey
Odour		: None
pH		: 8.0-9.5 (20 degree C)
Boiling Point / Boiling Range		: Not available.
Flash Point		: Does not flash until 100 degree C(Closed cup)
Flammability(solid, gas)		: No data available.
Relative density		: 1.00-1.10 (20 degree C)
Solubility		: No data available.
Water solubility		: Complete
Viscosity		: less than 5 mPa · s(20 degree C)

10. Stability And Reactivity

Conditions To Avoid	: High and freezing temperatures.
Stability	: Stable under normal temperature.
Materials To Avoid	: Oxidizers and explosives
Hazardous Reactions/	: No data available
Decomposition Products	

11. Toxicological Information

Acute Toxicity	Oral LD ₅₀	Dermal LD ₅₀	Inhalant LC ₅₀
	>5000mg/kg(Rats)	No data available.	No data available.
Eye Irritation	: Mild irritating(Rabbits, OECD 405)		
Skin Irritation	: Non irritant(Rabbits, OECD 404)		
Skin sensitizing	: Positive(OECD 406)		
Mutagenicity	: No data available.		
Carcinogenicity	: Contains cobalt compounds listed in IARC Monographs 2B		



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Page 5 of 6

Material Safety Data Sheets

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12. Ecological Information

Ecotoxicity : No data available on the adverse effects of this ink on the environment.

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

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

UN Class/UN Number : Not applicable.

15. Regulatory Information

TSCA Section 4(a) Final Test : Not regulated.

Rules Regulated

TSCA Section 8(a) : Not regulated.

Preliminary Assessment

Information Rule(PAIR)

TSCA Section 8(a) : Not regulated.

Inventory Update Rule

TSCA Section 12(b) : Not regulated.

One-Time Export

Notification Regulated

California Proposition 65 : Not regulated.

Canada Information : Not applicable(Manufactured article)

WHMIS Controlled Product



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Page 6 of 6

Material Safety Data Sheets

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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 does 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	May 17, 2010	First issue.