

MATERIAL SAFETY DATA SHEET

MSDS: 2007013010EU
Date Prepared: 22, June, 2007
Date Revised :
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Reactive Dye Ink Black/Gray/Pink

Distributed by:

Konica Minolta IJ Technologies, Inc.
Sakura-machi 1, Hino-shi, Tokyo 191-8511
Japan
Tel: +81-42-589-3708
Fax: +81-42-589-3868

2. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENTS | CAS# | wt. % | Symbol | R Phrases |
|-----------------|----------|---------|--------|-----------|
| Ethylene glycol | 107-21-1 | 20 - 25 | Xn | 22 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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*****  
* Colored liquid. Slight characteristic odor. *  
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POTENTIAL HEALTH EFFECTS

Eye Effects : May cause eye and mucous membrane irritation.

Skin Effects : May cause slight skin irritation.

Ingestion Effects : May be harmful if swallowed.

Inhalation Effects: No identified health effects.

Chronic Effects/ Carcinogenicity:

None of the components in this material is listed by IARC, EU or ACGIH as a carcinogen.

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4. FIRST AID MEASURES

- Eye** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin** : Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.
- Ingestion** : Wash out mouth with water. Drink one or two glasses of water. Get medical attention immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
- Inhalation**: No exposure expected under normal conditions. Large amount of vapor or mist if inhaled, move victim to fresh air immediately. If symptoms occur, get medical attention.

5. FIRE FIGHTING MEASURES

- Flash Point** : Not available
- Method Used** : Not available
- Flammable Limits** : Not applicable
- Autoignition Temperature** : Not applicable
- Unusual Fire and Explosion Hazard**: In usual use, no special hazards known. If fire occurs, may be flammable.
- Extinguishing Media**: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
- Fire Fighting**: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.
- Hazardous Combustion Products**: (black/gray/pink)carbon monoxide, carbon dioxide, (gray/pink)nitrogen oxides, sulfur oxides and chlorine, hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

- Spill and Leakage Procedures**:
Wear personal protective equipment(See Section 8). Absorb spill with inert material(e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

- Handling**:
Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Use with adequate ventilation. Wash thoroughly after handling.
- Prevention of Fire and Explosion**:
No special precautionary measures should be required under normal use conditions.
- Storage**:
Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances(See Section 10).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

| INGREDIENTS | ACGIH TLV TWA | STEL |
|-----------------|------------------|------|
| Ethylene glycol | C 50ppm | |

Engineering Controls: Use process enclosures or local exhaust ventilation.

Respiratory Protection: Not required under normal conditions.

Skin Protection: Impervious gloves should be worn.

Eye Protection: Splash goggles should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colored liquid
Odor : Slight characteristic odor
Vapor Pressure : Not available.
Vapor Density : Not available.
Evaporation Rate: Not available.
Boiling Point : Not available.
Melting Point : Not applicable.
Solubility : Completely soluble in water.

10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility: Oxidizers.

Hazardous Decomposition Products:

(black/gray/pink) carbon monoxide, carbon dioxide, (gray/pink) nitrogen oxides, sulfur oxides and chlorine, hydrogen chloride.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

Product

Acute oral toxicity : LD50:>2000mg/kg(rat) (data of similar product)

Mutagenicity : Ames test Negative

Ingredients

Ethylene glycol

Acute oral toxicity : LD50: 4700mg/kg[rat], LD50: 7500mg/kg[mouse]

Eye irritation : Mild[rabbit]

Skin irritation : Mild[rabbit]

Mutagenicity : Ames test Negative, Chromosomal aberration test Negative

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12. ECOLOGICAL INFORMATION:

Ingredients

Ethylene glycol

Biodegradation : Readily biodegradable

Fish acute toxicity : 24hrLC50: >5000mg/l -modified ASTM D 1345[Goldfish]

Daphnia acute toxicity : 48hrEC50: 10000mg/l[Daphnia magna]

Algae growth inhibition: 1g/l No effect [Scenedesmus subspicatus]

Octanol/water partition coefficient: -1.930

13. DISPOSAL CONSIDERATIONS:

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION:

UN CLASS: Not regulated.

15. REGULATORY INFORMATION:

Labeling according EEC-Regulations: No labels required.

16. OTHER INFORMATION:

The above information is believed to be accurate and represents the best information currently available to our company. However, our company make no warranty with respect to such information, and our company assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.