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## Ink Cartridge (R) (H086063-00)

MSDS Number: MSDSH086063-00-02-OT-E--- *Effective Date: 08/09/2006*

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### 1. Product Identification

**Product Name:** Ink Cartridge (R) (H086063-00)

**Synonyms:** None

**Use:** Water-Based Printing Ink

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### 2. Composition Information

*This is an aqueous fluid formulation*

Fluid Composition	CAS No.	% By Weight
Proprietary dyes and pigments	–	< 5 %
Proprietary organic materials	–	5 – 10 %
Glycerols	–	15 – 20 %
Triethanolamine	102-71-6	1 – 5 %
Water	7732-18-5	balance

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### 3. Hazards Identification

**3.1 Emergency Overview:** Ink component is red 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.

**3.2 Potential Health Effects:**

**Eyes:** Ink contact with eye may be mildly irritating. See Section 11 for Toxicology.

**Skin:** Ink contact with skin may cause irritation, swelling, or redness. It is not expected to cause an allergic skin reaction. See Section 11 for Toxicology.

Inhalation: Intentional exposure to the vapors of ink may cause respiratory irritation. See Section 11 for Toxicology.

Ingestion: May cause upset stomach. See Section 11 for Toxicology.

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## 4. First Aid Measures

4.1 Eyes: Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

4.2 Skin: Wash surface areas with soap and water. Wash soiled clothing before rewearing. Consult a physician. Consult a physician if irritation continues.

4.3 Inhalation: Remove subject to ventilated fresh air. Consult physician if necessary.

4.4 Ingestion: Seek medical advise; and attention if stomach continues to be upset.

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## 5. Fire Fighting Measures

5.1 Flammability: Not flammable

5.2 Extinguishing Media: Dry chemical or carbon dioxide

5.3 Fire Fighting Instructions: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

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## 6. Accidental Release Measures

If a spill occurs, use sponges to wipe-up fluid, then rinse area with damp cloth. Place waste in closed container for disposal. Use proper ventilation. Do not dispose of waste to the sewer. No eye or skin protection required during clean-up. Wash hands with soap and water.

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## 7. Precautions for Safe Handling and Use

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. Do not dismantle cartridge. Do not store cartridges with oxidizing agents or explosives. Make sure cartridge is dry before insertion into printer housing.

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## 8. Exposure Controls/Personal Protection

8.1 Engineering Controls: None required

8.2 Exposure Controls: Not applicable

8.3 Personal Protection: None required when cartridges are used as intended.

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## 9. Physical and Chemical Properties

**Appearance:** Red liquid.

**Odor:** No odor.

**pH:** 8.8 ± 0.3

**Freezing point:** Less than 32°F/0

**Flash Point:** Greater than 212°F/100 (Closed cup, ASTM D3278)

**Autoflammability:** None

**Explosive properties:** None

**Oxidizing properties:** None

**Vapor density:** No data available

**Relative density:** 1.055

**Solubility in water:** Complete

**Solubility in fat:** No data available

**Partition coefficient:** No data available

**Viscosity:** Less than 5 mPa · s

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## 10. Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** None

**Incompatibilities materials:** Oxidizers and explosives

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## 11. Toxicological and Health Hazards

**Routes of Overexposure:** Eye, skin, inhalation, and oral

### Acute Health Hazards:

- Overexposure of eye surface to the fluid may be mildly irritating
- Overexposure of skin to the fluid contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to the fluid vapors may result in respiratory tract irritation
- Intentional or accidental oral ingestion may cause an upset stomach

**Chronic Health Hazards:** None known

**Mutagenicity:** No data available

**Carcinogenicity:** Not contain any substances listed in IARC Monographs (Group 1,2A and 2B) for the ingredients of the ink.

**Toxicity Data:** Oral LD<sub>50</sub>                      Dermal LD<sub>50</sub>                      Inhalant LC<sub>50</sub>

> 2500 mg/kg(Rat) > 2000 mg/kg(Rat) No data available

**Skin irritation:** Non irritant(Rabbit)  
**Eye irritation:** Mild irritant(Rabbit)  
**Sensitization:** Non-sensitiser  
**Mutagenicity:** Negative (by Ames test)

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## 12. Ecological Information

No data available on the adverse effects of this material on the environment

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## 13. Disposal Considerations

Disposal should be in accordance with national and local requirements.

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## 14. Transport Information

UN Class/UN Number: Not applicable

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## 15. Regulatory Considerations

**EU Regulations:** All components of this ink are compliant with EU chemical inventory regulations

**U.S.Regulations:** All components of this ink are compliant with TSCA chemical inventory regulations

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## 16. Other Information

This “Material Safety Data Sheet” contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time.

**Revision Information:** Initial MSDS Development.

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### Disclaimer:

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