

From: NK Works Co., Ltd.
579-1, Umehara
Wakayama-shi, 640-8550
Japan

Emergency Telephone: +81 73 456 3969
All Non-Emergency Phone: +81 73 456 3969
Fax: +81 73 464 3991

Ink Cartridge (M) (H086077-00)

MSDS Number: MSDS H086077-00-01-OT-E--- *Effective Date: 12/14/2012*

1. Product Identification

Product Name: Ink Cartridge (M) (H086077-00)

Synonyms: None

Use: Inkjet Printing Ink

2. Composition Information

This is an aqueous ink formulation

Ink Composition	CASNo.	%By Weight
Proprietary dyes and pigments	–	5–10%
Proprietary organic materials	–	15–20%
Glycerols	–	5–10%
Water	7732-18-5	balance

3. Hazards Identification

3.1 Emergency Overview: Ink component is magenta 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.

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.

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.

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.

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.

8. Exposure Controls/Personal Protection

- 8.1 Engineering Controls:** None required
- 8.2 Exposure Controls:** Not applicable
- 8.3 Personal Protection:** Safety goggles, protective gloves (clean gloves), protective clothing

9. Physical and Chemical Properties

Appearance: Magenta liquid.

Odor: None.

pH: About 8.8 at 20°C

Boiling: No data available

Melting point: Less than 0°C/32°F

Flash point: Over 100°C/230°F(estimated)

Autoflammability: None

Explosive properties: None

Oxidizing properties: None

Vapor density: No data available

Relative density: 1.073 at 20°C

Solubility in water: Complete

Solubility in fat: No data available

Partition coefficient: No data available

Viscosity: Less than 5 mPa · s

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None

Incompatibilities materials: Oxidizers and explosives

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: Not meet the criteria for classification according to EU Directive 1999/45/EC

Carcinogenicity: Not contain any substances listed in IARC Monographs(Group 1,2)

Toxicity Data: Oral LD₅₀ Dermal LD₅₀ Inhalant LC₅₀

Not meet the criteria for classification according to EU Directive 1999/45/EC Not meet the criteria for classification according to EU Directive 1999/45/EC No data available

Eye irritation: Not meet the criteria for classification according to EU Directive 1999/45/EC

Skin irritation: Not meet the criteria for classification according to EU Directive 1999/45/EC

Skin sensitization: Not meet the criteria for classification according to EU Directive 1999/45/EC

12. Ecological Information

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

13. Disposal Considerations

Used and unused cartridges are not a federal RCRA hazardous waste. Disposal should be in accordance with federal, state, and local requirements.

14. Transport Information

Not regulated as Hazardous Material

15. Regulatory Considerations

US information: Not regulated

EU information: Not regulated

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.

Disclaimer:

NK Works Co., Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the

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Prepared by: NK Works Co., Ltd.
Phone Number: +81 73 456 3969 (Japan)
