



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Identification of the preparation C9470A

Use of the preparation Inkjet printing

Manufacturer information Hewlett-Packard Company
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Date prepared Apr 17, 2007

MSDS number 225395

2. Composition / Information on Ingredients

| Component/substance | CAS number | % by weight |
|---------------------|-------------|-------------|
| Water | 7732-18-5 | > 70 |
| 2-pyrrolidone | 616-45-5 | < 7.5 |
| Alkyldiol | Proprietary | < 7.5 |
| Diethylene glycol | 111-46-6 | < 5 |
| Polymer 683-K salt | | < 2.5 |

Composition comments This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

3. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea.

Acute health effects Any potential hazards are presumed to be due to exposure to the components.

Skin contact

2-pyrrolidone
Contact with skin may result in irritation.

Alkyldiol
Contact with skin may result in irritation.

Polymer 683-K salt
Contact with skin may result in irritation.

Trade Secret blue colorant
Contact with skin may result in irritation.



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Eye contact

2-pyrrolidone
Contact with eyes may result in irritation.

Alkyldiol
Contact with eyes may result in irritation.

Polymer 683-K salt
Contact with eyes may result in irritation.

Trade Secret blue colorant
Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Alkyldiol
Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Polymer 683-K salt
Swallowing large amounts may cause digestive discomfort. Ingestion may result in nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure

Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

4. First Aid Measures

First aid procedures

Skin

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

Eye

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Inhalation

Move to fresh air. If symptoms persist, get medical attention.

Ingestion

If ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

Flash point and method

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Auto ignition temperature

Not determined



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| Hazardous combustion products | Refer to section 10. |
| Extinguishing media | CO ₂ , water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Unusual fire and explosion hazard | Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes; ketones; potential for acetylene. |
| Special firefighting procedures | None established. |

6. Accidental Release Measures

| | |
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| Personal precautions | Wear appropriate personal protective equipment. |
| Environmental precautions | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. |
| Procedures if material is released or spilled | Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations. |

7. Handling and Storage

| | |
|-----------------|--|
| Handling | Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. |
| Storage | Keep in a dry place. Keep away from excessive heat or cold. Store away from strong oxidizers. |

8. Exposure Controls/Personal Protection

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|--------------------------------------|---|
| Exposure limit values | Exposure limits have not been established for this product. |
| Personal protective equipment | |
| General | Use personal protective equipment to minimize exposure to skin and eye. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |
| Exposure guidelines | Use in a well ventilated area. |

9. Physical & Chemical Properties

| | |
|-----------------------------|----------------------|
| pH | 9.2 |
| Vapor pressure | Not determined |
| Boiling point | Not determined |
| Solubility | Soluble in water |
| Specific gravity | 1 - 1.1 |
| Flash point | > 200 °F (> 93.3 °C) |
| Vapor density | > 1 (air=1.0) |
| Evaporation rate | Not determined |
| Flammability | Not determined |
| Oxidizing properties | Not determined |
| Color | Light Cyan |

10. Chemical Stability & Reactivity Information

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| Stability | Stable under recommended storage conditions. |
| Hazardous polymerization | Will not occur. |



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| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride fluorinated hydrocarbons ketones aldehydes |
| Incompatibility | Incompatible with strong bases and oxidizing agents. |

11. Toxicological Information

This ink formulation has not been tested for toxicological effects.
Refer to Section 3 for potential health effects and Section 4 for first aid measures.

12. ECOLOGICAL INFORMATION

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|-------------------------|--------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows => 750 mg/l |
|-------------------------|--------------------------------------|

13. Disposal Considerations

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| Disposal instructions | Dispose of in compliance with federal, state, and local regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle . |
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14. Transportation Information

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| General | Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID. |
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IATA

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|-----------------------------------|----------------|
| Proper shipping name | Not Applicable |
| Hazard class | Not applicable |
| Packaging exceptions | None |
| Identification number (UN) | None |
| Packing group | N/A |

15. Regulatory Information

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|--|--|
| International regulations | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China. |
| US federal regulations | US TSCA 12(b): Does not contain listed chemicals. |
| HMIS ratings | Health: 1 Flammability: 2 Physical hazard: 0 |
| NFPA ratings | Health: 1 Flammability: 2 Instability: 0 |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | |
| Section 302 extremely hazardous substance | No |
| Section 311 hazardous chemical | Yes |



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Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

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Revision 1

Replaces sheet dated Aug 22 2006 1:51PM

Disclaimer This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists
CAS Chemical Abstracts Service
CERCLA Comprehensive Environmental Response Compensation and Liability Act
CFR Code of Federal Regulations
COC Cleveland Open Cup
DOT Department of Transportation
EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
REC Recommended
REL Recommended Exposure Limit
SARA Superfund Amendments and Reauthorization Act of 1986
STEL Short-Term Exposure Limit
TCLP Toxicity Characteristics Leaching Procedure
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds