



# Material Safety Data Sheet

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## 1. Product and Company Identification

<b>Material name</b>	C9468A
<b>Use of the preparation</b>	Inkjet printing
<b>Version #</b>	02
<b>Revision date</b>	01-Dec-2009
<b>Company identification</b>	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501  Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com
<b>Date prepared</b>	Nov 30, 2009
<b>MSDS number</b>	593828

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## 2. Hazards Identification

<b>Emergency overview</b>	Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea. May cause sensitization of susceptible persons.
<b>Acute health effects</b>	Any potential hazards are presumed to be due to exposure to the components.
<b>Skin contact</b>	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Alkyldiol</i> Contact with skin may result in irritation.
<b>Eye contact</b>	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Alkyldiol</i> Contact with eyes may result in irritation.
<b>Inhalation</b>	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Alkyldiol</i> Inhalation may result in respiratory irritation.
<b>Ingestion</b>	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>Diethylene glycol</i> Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.
<b>Potential health effects</b>	
<b>Routes of exposure</b>	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
<b>Chronic health effects</b>	None known.



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## 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.

### 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	< 70
2-pyrrolidone	616-45-5	< 7.5
Diethylene glycol	111-46-6	< 7.5
Alkyldiol	Proprietary	< 5
Triethanolamine	102-71-6	< 1

#### 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).

### 4. First Aid Measures

#### First aid procedures

##### Eye contact

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.

##### Skin contact

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

##### Inhalation

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

##### Ingestion

If material is ingested, immediately contact a physician or poison control center.

### 5. Fire Fighting Measures

#### Flash point and method

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

#### Hazardous combustion products

Refer to section 10.

#### Flammable properties

Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes; ketones; acetylene.

#### Extinguishing media

##### Suitable extinguishing media

CO2, 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; acetylene.

#### Special firefighting procedures

None established.

### 6. Accidental Release Measures

#### 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.

#### Other information

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 out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.



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## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

#### Components

	Type	Value
Triethanolamine (102-71-6)	TWA	5 mg/m3

### Exposure guidelines

Exposure limits have not been established for this product.

### Personal protective equipment

#### General

Use personal protective equipment to minimize exposure to skin and eye.

#### Eye / face protection

Not required under intended use.

#### Skin protection

Protected gloves not required under intended use.

#### Respiratory protection

For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Color	Magenta
Odor threshold	Not available.
Physical state	Not available.
pH	9.4
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not determined
Flash point	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	> 1 (AIR = 1.0)
Specific gravity	1 - 1.1
Relative density	Not available.
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. aldehydes, ketones, hydrogen fluoride, fluorinated hydrocarbons



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Possibility of hazardous reactions

Will not occur.

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## 11. Toxicological Information

### Carcinogenicity

IARC Monographs: Evidence of carcinogenicity in humans

Triethanolamine (102-71-6)

Inadequate data.

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## 12. Ecological Information

Aquatic toxicity

LC50/96h/Fathead minnows => 750 mg/L

Persistence and degradability

Not available.

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## 13. Disposal Considerations

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. Transport Information

### IATA

Proper shipping name

Not applicable

Hazard class

Not applicable

UN number

None

Packing group

N/A

Packaging exceptions

None

General

Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.

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## 15. Regulatory Information

US federal regulations

US TSCA 12(b): Does not contain listed chemicals.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

Yes

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.

### State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5)

Listed.

Diethylene glycol (111-46-6)

Listed.

Triethanolamine (102-71-6)

Listed.



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## 16. Other Information

<b>HMIS® ratings</b>	Health: 1 Flammability: 2 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 2 Instability: 0
<b>Issue date</b>	Nov 30 2009 7:23PM
<b>Revision</b>	2
<b>Replaces sheet dated</b>	Nov 20 2009 11:21PM
<b>Manufacturer information</b>	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209
<b>Other information</b>	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
<b>Disclaimer</b>	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.
<b>MSDS sections updated</b>	8. Exposure Controls / Personal Protection: Respiratory protection 8. Exposure Controls / Personal Protection: Eye / face protection 8. Exposure Controls / Personal Protection: Skin protection 14. Transport Information: General
<b>Explanation of abbreviations</b>	

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