



# SAFETY DATA SHEET

## 1. Identification of the substance/preparation and of the company/undertaking

**Identification of the preparation** C9410A

**Use of the preparation** Inkjet printing

**Company identification** Hewlett-Packard, Ltd.  
Cain Road, Amen Corner  
Bracknell, Berkshire, RG12 1HN

**Emergency telephone number**

**Poison Information Center** 0207771 5307

**Hewlett-Packard health effects line**

**(Toll-free within the US)** 1-800-457-4209

**(Direct)** 1-503-494-7199

**General information telephone number**

1 344 36-0000

**(Toll-free within the US)** 1-800-474-6836

**(Direct)** 1-208-323-2551

**Date prepared** 16-Nov-2006

**SDS number** 204700

## 2. Composition/information on ingredients

Component/substance	CAS number	% by weight	EU number	EU classification
<b>Medium gray ink</b>				
Water	7732-18-5	> 70	231-791-2	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi; R36/38
Alkyldiol	Proprietary	< 5	Proprietary	
Diethylene glycol	111-46-6	< 5	203-872-2	Xn; R22
Triethanolamine	102-71-6	< 1.5	203-049-8	Xn; R21
Carbon black	1333-86-4	< 1	435-640-3	

### Gloss Enhancer

Water	7732-18-5	> 80	231-791-2	
2-pyrrolidone	616-45-5	< 5	210-483-1	Xi; R36/38
Alkyldiol	Proprietary	< 5	Proprietary	
Polymer 58-K salt		< 2.5		
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 the EU Directives 67/548/EEC and 1999/45/EC, as amended.  
For the full text of the R phrases mentioned in this Section, see Section 16.

## 3. Hazards Identification

**Classification** This product is not classified according to EU Directive 1999/45/EC.

**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.



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## Skin contact

### *2-pyrrolidone*

Contact with skin may result in irritation.

### *Alkyldiol*

Contact with skin may result in irritation.

### *Triethanolamine*

Contact with skin may result in irritation. May cause sensitization of susceptible persons by skin contact.

## Eye contact

### *2-pyrrolidone*

Contact with eyes may result in irritation.

### *Alkyldiol*

Contact with eyes may result in irritation.

### *Triethanolamine*

Contact with eyes may result in mild irritation.

## Inhalation

### *2-pyrrolidone*

Inhalation may result in respiratory irritation.

### *Alkyldiol*

Inhalation may result in respiratory irritation.

### *Triethanolamine*

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.

## 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

Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink.

### Carcinogenicity

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

### Other information

This product is not classified according to EU Directive 1999/45/EC.

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## 4. First aid measures

### First aid procedures

#### 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.

#### Skin

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



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**Inhalation**

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

**Ingestion**

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

## 5. Fire-fighting measures

<b>Flash point and method</b>	> 200 °F; Pensky-Martens Closed Cup
<b>Auto ignition temperature</b>	Not determined
<b>Hazardous combustion products</b>	Refer to section 10.
<b>Extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Unsuitable extinguishing media</b>	None known.
<b>Unusual fire and explosion hazard</b>	None known.
<b>Special firefighting procedures</b>	None established.

## 6. Accidental release measures

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Procedures if material is released or spilled.</b>	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

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.

## 8. Exposure controls/personal protection

<b>Exposure limit values</b>	Exposure limits have not been established for this product.	
United Kingdom - Workplace Exposure Limits (WELs) - STELs		
Diethylene glycol	111-46-6	69 ppm STEL; 303 mg/m3 STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs		
Diethylene glycol	111-46-6	23 ppm TWA; 101 mg/m3 TWA
United Kingdom - Workplace Exposure Limits (WELs) - STELs		
Carbon black	1333-86-4	7 mg/m3 STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs		
Carbon black	1333-86-4	3.5 mg/m3 TWA
<b>Personal protective equipment</b>		
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.	
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.	
<b>Exposure guidelines</b>	Use in a well ventilated area.	

## 9. Physical and chemical properties

<b>pH</b>	9.2 - 9.4
<b>Vapour pressure</b>	Not determined
<b>Boiling point</b>	Not determined
<b>Solubility</b>	Soluble in water



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Specific gravity	1 - 1.1
Flash point	> 200 °F
Vapour density	> 1 (air-1.0)
Evaporation rate	Not determined
Flammability	Not determined
Oxidising properties	Not determined
Colour	Gray/colorless

## 10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Hazardous polymerisation	Will not occur.
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, aldehydes, ketones
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

Aquatic toxicity	<i>Gloss Enhancer</i> LC50/96h/fathead minnows => 750mg/L <i>Medium gray ink</i> LC50/96h/fathead minnows => 750 mg/L
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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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .
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## 14. Transport information

General	Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.
IATA	
Proper shipping name	Not applicable
Hazard class	Not applicable
Packaging exceptions	None.
Identification number (UN)	None.
Packing group	N/A

## 15. Regulatory information

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.
EU label	This product does not require a label according to EU Directive 1999/45/EC.



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## 16. Other information

<b>Manufacturer information</b>	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US	
<b>Ingredient risk phrase definition(s)</b>	R21	Harmful in contact with skin.
	R22	Harmful if swallowed.
	R36/38	Irritating to eyes and skin.
<b>Other information</b>	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.	
<b>Issue date</b>	Nov 16 2006 2:48AM	
<b>Revision</b>	1	
<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>Explanation of abbreviations</b>		
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	