



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation	C9404A
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	17-Apr-2007
SDS number	166744

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Matte Black ink				
Water	7732-18-5	> 70	231-791-2	
2-pyrrolidone	616-45-5	< 20	210-483-1	R36/38
Ethyl alkyldiol	Proprietary	< 5	Proprietary	
1,5-pentanediol	111-29-5	< 5	203-854-4	
Cyan ink				
Water	7732-18-5	> 70	231-791-2	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	R36/38
Diethylene glycol	111-46-6	< 7.5	203-872-2	Xn; R22
Alkyldiol	Proprietary	< 5	Proprietary	
Polymer 683-K salt		< 2.5		
Triethanolamine	102-71-6	< 1.5	203-049-8	R36/38

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. May cause sensitization of susceptible persons.
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.



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Skin contact

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Polymer 683-K salt

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

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Polymer 683-K salt

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.

Polymer 683-K salt

Swallowing large amounts may cause digestive discomfort. Ingestion may result in nausea, vomiting and diarrhea.



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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.

Other information

The black and Cyan inks are not classified according to EU Directive 1999/45/EC.

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.

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

Flash point and method

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

Auto ignition temperature

Not determined

Lower explosion limit

Not determined

Hazardous combustion products

Refer to section 10.

Extinguishing media

CO₂, water, dry chemical, or foam

Unsuitable extinguishing media

None known.

Unusual fire and explosion hazard

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

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.

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.



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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values Exposure limits have not been established for this product.

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

Diethylene glycol 111-46-6 69 ppm STEL; 303 mg/m³ STEL

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 AND CHEMICAL PROPERTIES

pH	9.2 - 9.4
Vapour pressure	Not determined
Boiling point	Not determined
Solubility	Soluble in water
Specific gravity	1 - 1.1
Flash point	> 93.3 °C (> 200 °F)
Vapour density	> 1 (Air = 1.0)
Evaporation rate	Not determined
Flammability	Not determined
Oxidising properties	Not determined
Colour	Matte black/Cyan

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

Cyan ink
LC50/96h/fathead minnows => 750 mg/L
Matte Black ink
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 <http://www.hp.com/recycle>.

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.

16. OTHER INFORMATION

Manufacturer information Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US

Ingredient risk phrase definition(s) R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

Issue date Apr 17 2007 12:15PM

Revision 1

Replaces sheet dated Aug 17 2006 9:57AM

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.



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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