



SAFETY DATA SHEET

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

Identification of the preparation C9452A

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 22-Aug-2006

SDS number 168241

2. Composition/information on ingredients

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	> 70	231-791-2	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi, 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	Xn, R21

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.

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.

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



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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.

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.

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

This Cyan ink is 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 > 200 °F; Pensky-Martens Closed Cup

Auto ignition temperature Not determined



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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 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.
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.
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) - 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
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	9.4
Vapour pressure	Not determined
Boiling point	Not determined
Solubility	Soluble in water
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	Cyan



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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	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 .
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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	N/A
Identification number (UN)	none
Packing group	N/A

15. Regulatory information

International regulations	All chemical substances in this product are notified or exempt from notification under chemical substance notification laws in the following countries: Australia, Canada, European Union, Japan, New Zealand, Switzerland, and USA..
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)	R21 Harmful in contact with skin. 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	Aug 22 2006 11:09AM
Revision	1



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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