



SAFETY DATA SHEET

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

Identification of the preparation C9360A

Selectability number 102

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 28-Jun-2005

SDS number 59675

2. Composition/information on ingredients

Component/substance	CAS number	% by weight	EU number	EU classification
Black ink				
Water	7732-18-5	< 70	231-791-2	
Ethyl alkyldiol	Proprietary	< 15	Proprietary	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi; R36/38
1,5-pentanediol	111-29-5	< 2.5	203-854-4	
Alkyldiol ethoxylate	Proprietary	< 2.5	Proprietary	Xn; R21/22, 38, 41
Yellow ink				
Water	7732-18-5	< 80	231-791-2	
Ethyl alkyldiol	Proprietary	< 15	Proprietary	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi; R36/38
1,5-pentanediol	111-29-5	< 2.5	203-854-4	
Alkyldiol ethoxylate	Proprietary	< 2.5	Proprietary	Xn; R21/22, 38, 41
Light grey ink				
Water	7732-18-5	< 80	231-791-2	
Ethyl alkyldiol	Proprietary	< 15	Proprietary	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi; R36/38
1,5-pentanediol	111-29-5	< 2.5	203-854-4	
Alkyldiol ethoxylate	Proprietary	< 2.5	Proprietary	Xn; R21/22, 38, 41

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.



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Acute health effects

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

Skin contact

1,5-pentanediol
Contact with skin may result in irritation.
2-pyrrolidone
Contact with skin may result in irritation.
Alkyldiol ethoxylate
Contact with skin may result in severe irritation.
Ethyl alkyldiol
Contact with skin may result in mild irritation.

Eye contact

1,5-pentanediol
Contact with eyes may result in irritation.
2-pyrrolidone
Contact with eyes may result in irritation.
Alkyldiol ethoxylate
Contact can cause moderate to severe irritation and possible injury to the eyes.
Ethyl alkyldiol
Contact with eyes may result in mild irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.
Alkyldiol ethoxylate
Ingestion may cause irritation of mouth, throat, 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 product 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. Get medical attention if irritation develops or persists.

Inhalation

Remove 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

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



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Hazardous combustion products	Refer to section 10.
Extinguishing media	Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	None known.
Unusual fire and explosion hazard	None known.
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.

8. Exposure controls/personal protection

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 and chemical properties

pH	7.8 - 8.2
Vapour pressure	Not determined
Boiling point	Not determined
Solubility	Soluble in water
Specific gravity	1 - 1.2
VOC content	< 3 %
Flash point	> 93.3 °C (> 200 °F)
Viscosity	> 2 cp
Vapour density	> 1 (Air = 1.0)
Evaporation rate	Not determined
Flammability	Not determined
Oxidising properties	Not determined
Color	Black, medium grey, light grey

10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Hazardous polymerisation	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.

Incompatibility

Incompatible with strong bases and oxidising 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***Black ink*

LC50/96h/fathead minnows =< 400 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 100%
Static acute toxicity (trout), survival (10 mg/L) = 100%

Light grey ink

LC50/96h/fathead minnows =< 400 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 100%
Static acute toxicity (trout), survival (10 mg/L) = 100%

Yellow ink

LC50/96h/fathead minnows =< 400 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 100%
Static acute toxicity (trout), survival (10 mg/L) = 100%

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



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Ingredient risk phrase definition(s)	R21/22 R36/38 R38 R41	Harmful in contact with skin and if swallowed. Irritating to eyes and skin. Irritating to skin. Risk of serious damage to eyes.
Other information	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.	
Issue date	Jun 28 2005 6:15PM	
Revision	6	
Replaces sheet dated	Apr 15 2005 10:50AM	
Preparation and revision information	3. Hazards identification: Routes of exposure	
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	