



SAFETY DATA SHEET

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

Identification of the substance/preparation CB315A

Use of the preparation Inkjet printing

Revision date 01-22-2009

CAS # Mixture

Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

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
Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

Classification R52/53

Acute health effects

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

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.

Amino alkyldiol
Contact with skin may result in irritation.

Ammonium nitrate
Contact with skin may result in irritation.

Ethyl alkyldiol
Contact with skin may result in mild irritation.

Metal nitrate #2
Contact with skin may result in 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.

Amino alkyldiol
Contact with eyes may result in irritation.

Ammonium nitrate
Contact with eyes may result in irritation.

Ethyl alkyldiol
Contact with eyes may result in mild irritation.

Metal nitrate #2
Contact with eyes may result in irritation.



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Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Amino alkyldiol
Inhalation may result in respiratory irritation.

Ammonium nitrate
Inhalation may result in respiratory irritation.

Metal nitrate #2
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.

Ammonium nitrate
Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate #2
Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt #2
Harmful if swallowed.

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

Cyan ink:
Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to health.

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.

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information

This cyan ink is classified for environmental effects according to EU Directive 1999/45/EC with R52-53 The magenta and yellow inks are not classified according to EU Directive 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Cyan ink				
Water	7732-18-5	< 80	231-791-2	
1,5-pentanediol	111-29-5	< 10	203-854-4	
2-pyrrolidone	616-45-5	< 10	210-483-1	Xi; R36/38
Ethyl alkyldiol	Proprietary	< 10	Proprietary	
Metal nitrate #2	Proprietary	< 10	Proprietary	Xi, O; R36/37/38, 8
Alkyldiol ethoxylate	Proprietary	< 2.5	Proprietary	Xn, N; R21/22, 38, 41, 51/53
Ammonium nitrate	6484-52-2	< 2.5	229-347-8	R36/37/38, 8
Substituted phthalocyanine salt #2	Proprietary	< 2.5	Proprietary	Xn, N; R22, 48/22, 51/53



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Magenta ink

Water	7732-18-5	< 80	231-791-2	
1,5-pentanediol	111-29-5	< 10	203-854-4	
2-pyrrolidone	616-45-5	< 10	210-483-1	Xi; R36/38
Ethyl alkyl diol	Proprietary	< 10	Proprietary	
Metal nitrate #2	Proprietary	< 10	Proprietary	Xi, O; R36/37/38, 8
Alkyl diol ethoxylate	Proprietary	< 2.5	Proprietary	Xn, N; R21/22, 38, 41, 51/53
Amino alkyl diol	Proprietary	< 2.5	Proprietary	Xi; R36/37/38
Ammonium nitrate	6484-52-2	< 2.5	229-347-8	R36/37/38, 8

Yellow ink

Water	7732-18-5	< 80	231-791-2	
1,5-pentanediol	111-29-5	< 10	203-854-4	
2-pyrrolidone	616-45-5	< 10	210-483-1	Xi; R36/38
Ethyl alkyl diol	Proprietary	< 10	Proprietary	
Metal nitrate #2	Proprietary	< 10	Proprietary	Xi, O; R36/37/38, 8
Alkyl diol ethoxylate	Proprietary	< 2.5	Proprietary	Xn, N; R21/22, 38, 41, 51/53
Ammonium nitrate	6484-52-2	< 2.5	229-347-8	R36/37/38, 8

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.

4. FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
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.
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); Pinsky-Martens Closed Cup
Suitable extinguishing media	CO ₂ , water, dry chemical, or foam
Extinguishing media which must not be used for safety reasons	None known.
Unusual fire & explosion hazards	None known.
Hazardous combustion products	Refer to section 10.
Specific methods	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.

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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Netherlands

Components

	Type	Value
Ethyl alkyldiol (Proprietary)	Ceiling	5 mg/m3

Sweden

Components

	Type	Value
Ethyl alkyldiol (Proprietary)	TWA	5 mg/m3

Additional exposure data 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid.
Form	Not available.
Colour	Cyan, magenta, yellow
Odour	Not available.
Odour threshold	Not available.
pH	6.5 - 8.75
Boiling point	Not determined
Flash point	> 93.3 °C (> 200 °F); Pensky-Martens Closed Cup
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapour pressure	Not determined
Relative density	Not available.
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Viscosity	> 2 cp
Vapour density	> 1 (air = 1.0)
Evaporation rate	Not determined
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not available.
Specific gravity	1 - 1.2
VOC	< 3 %

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.



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Materials to avoid	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.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information	Refer to Section 3 for potential health effects and Section 4 for first aid measures.
Further 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

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

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Proper shipping name	Not applicable
Hazard class	Not applicable
UN number	None.
Packing group	N/A
Packaging exceptions	None.
Packaging non bulk	None.
Labels required	None.

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

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.
Labeling	
Contains	1,5-pentanediol, 2-pyrrolidone, Alkyldiol ethoxylate, Amino alkyldiol, Ammonium nitrate, Ethyl alkyldiol, Metal nitrate #2, Substituted phthalocyanine salt #2, Water
R-phrase(s)	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EC 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 (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209
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List of relevant R phrases

R8 Contact with combustible material may cause fire.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information

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

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.

Issue date

01-22-2009

This data sheet contains changes from the previous version in section(s):

HAZARDS IDENTIFICATION: Other information

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