



SAFETY DATA SHEET

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

Identification of the substance/preparation CD888A

Use of the preparation Inkjet printing

Revision Date 20-Jun-2008

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

Email hpcustomerinquiries@hp.com

2. HAZARDS IDENTIFICATION

Classification R52/53

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

Skin contact

1-(2-hydroxyethyl)-2-pyrrolidone
Contact with skin may result in irritation.

1,5-pentanediol
Contact with skin may result in irritation.

Aliphatic diol
Contact with skin may result in irritation.

Ethyl alkyl diol
Contact with skin may result in mild irritation.

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

Pyridine azo dye
May cause sensitization by skin contact.

Substituted naphthalenesulfonate salt #13
Contact with skin may result in irritation.



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Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone
Contact with eyes may result in irritation.

1,5-pentanediol
Contact with eyes may result in irritation.

Aliphatic diol
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.

Pyridine azo dye
Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt #13
Contact with eyes may result in irritation.

Substituted phthalocyanine salt #5
Risk of serious damage to eyes.

Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone
Inhalation may result in respiratory irritation.

Aliphatic diol
Inhalation may result in respiratory irritation.

Metal nitrate #2
Inhalation may result in respiratory irritation.

Substituted naphthalenesulfonate salt #13
Inhalation may result in respiratory irritation.

Ingestion

1-(2-hydroxyethyl)-2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.

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

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.

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



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Cyan ink				
Water	7732-18-5	> 60	231-791-2	
Ethyl alkyldiol	Proprietary	< 10	Proprietary	
1,5-pentanediol	111-29-5	< 7.5	203-854-4	
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 5	222-359-4	
Substituted phthalocyanine salt #5	Proprietary	< 5	Proprietary	Xi; R41
Metal nitrate #2	Proprietary	< 5	Proprietary	F; R36/37/38, 8
Phenylenediamine derivative	Proprietary	< 2.5	Proprietary	

Yellow ink

1,5-pentanediol	111-29-5	< 15	203-854-4	
Aliphatic diol	Proprietary	< 15	Proprietary	
Substituted naphthalenesulfonate salt #13	Proprietary	< 7.5	Proprietary	
Metal nitrate #2	Proprietary	< 5	Proprietary	F; R36/37/38, 8

Magenta ink

Water	7732-18-5	> 70	231-791-2	
Aliphatic diol	Proprietary	< 15	Proprietary	
1,5-pentanediol	111-29-5	< 7.5	203-854-4	
Pyridine azo dye	Proprietary	< 5	Proprietary	Xi, N; R43, 51/53
Nitric Acid, Magnesium Salt, Hexahydrate	Proprietary	< 5	Proprietary	F; R15, 17

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); Pensky-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.



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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

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	7.2 - 7.4
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 in 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	Not available
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

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s		
Ethyl alkyl diol	Proprietary	Inhalation LC50 Rat: >0.29 mg/L/4H; Oral LD50 Rat: 5000 mg/kg; Dermal LD50 Rat: >500 mg/kg
Toxicology Data - Selected LD50s and LC50s		
Water	7732-18-5	Oral LD50 Rat: >90 mL/kg
Toxicology Data - Selected LD50s and LC50s		
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	Oral LD50 Rat: 14430 mg/kg
Toxicology Data - Selected LD50s and LC50s		
1,5-pentanediol	111-29-5	Oral LD50 Rat: 2 g/kg; Dermal LD50 Rabbit: >20000 mg/kg
Toxicology Data - Selected LD50s and LC50s		
Aliphatic diol	Proprietary	Oral LD50 Rat: 3000 mg/kg; Dermal LD50 Rabbit: >2500 mg/kg
Toxicology Data - Selected LD50s and LC50s		
Metal nitrate #2	Proprietary	Oral LD50 Rat: 5440 mg/kg
Toxicology Data - Selected LD50s and LC50s		
Nitric Acid, Magnesium Salt, Hexahydrate	Proprietary	Oral LD50 Rat: 5440 mg/kg

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

Further information Complete toxicity data are not available for this specific formulation.
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 = 463 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 = 434 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 .
Waste from residues / unused products	Not available
Contaminated packaging	Not available



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14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

IATA

Proper shipping name	not applicable
Hazard class	not applicable
UN number	None.
Packing group	N/A
Packaging exceptions	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.

Labelling

R-phrases R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

EC Label This product does not require a label according to EU Directive 1999/45/EC. Contains pyridine azo dye. May produce an allergic reaction.

16. OTHER INFORMATION

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

List of relevant R phrases 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.

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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