

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

Identification of the

C4841A

preparation

Selectability number 10

Use of the preparation Inkjet printing

Company identification Hewlett-Packard, Ltd.

Cain Road, Amen Corner

Bracknell, Berkshire, RG12 1HN

Emergency telephone number

National Poisons

020 7771 5307

Information

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

1344 36-0000

HP Customer Care Line

 (Toll-free within the US)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Revision date
 13-Dec-2004

SDS number 19006

2. Composition/information on ingredients

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	< 70	231-791-2	
1,5-pentanediol	111-29-5	< 10	203-854-4	
Ethyl alkyldiol	Proprietary	< 7.5	Proprietary	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi, R36/38
Alkyldicarboxylic acid	Proprietary	< 7.5	Proprietary	Xi, R36/37/38
Substituted phthalocyanine salt #2	Proprietary	< 2.5	Proprietary	Xn, N, R22, 48/22, 51/53
Alkyldiol ethoxylate	Proprietary	< 2.5	Proprietary	Xi, 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

Emergency Overview Contact with skin and eyes may result in irritation.

Acute Health EffectsAny 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.

Alkyldicarboxylic acid

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.

Alkyldicarboxylic acid

Contact can cause moderate to severe irritation and possible injury to the eyes.

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.

Alkyldicarboxylic acid

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldicarboxylic acid

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Substituted phthalocyanine salt #2

Harmful if swallowed.

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SAFETY DATA SHEET

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 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.

Other information This Cyan ink is classified for environmental effects according to EU Directive

1999/45/EC with R52/53.

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

Hazardous combustion

products

Refer to section 10.

Extinguishing media Dry chemical, CO2, 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.

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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

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 3.75 - 4.25

Vapour pressureNot determinedBoiling pointNot determinedSolubilitySoluble 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 rateNot determinedFlammabilityNot determinedOxidising propertiesNot determined

Color 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.

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 LC50/96h/fathead minnows =< 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 90% Static acute toxicity (trout), survival (10 mg/L) = 100%

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13. Disposal considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. Transport information

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

IATA

Proper shipping name

Hazard class

Not applicable Not applicable

Packaging exceptions

Identification number

(UN)

None 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 classification and labeling

Risk phrases R52/53 Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Safety phrases S61 Avoid release to the environment. Refer to special

instructions/safety data sheets.

16. Other information

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Ingredient risk phrase definition(s)

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.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended

by 2001/58/EC.

Issue date 13-Dec-2004

Revision 2

Replaces sheet dated 06-Oct-2004

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Preparation and revision information

Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

Composition / Information on Ingredients: Ingredient Extensions Physical & Chemical Properties: Physical & Chemical Properties

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)

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

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