



SAFETY DATA SHEET

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

Identification of the substance/preparation CC674A

Use of the preparation Inkjet printing

Revision date 01-08-2009

Company identification Hewlett-Packard, Ltd.
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(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
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Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

Classification Xi, Xn, R20/21/22, R37, R52/53

Acute health effects

Skin contact Any potential hazards are presumed to be due to exposure to the components.
Ethylene Glycol, Monobutyl Ether Acetate
Contact with skin may result in irritation. Harmful if absorbed through the skin.

Eye contact *4-butyrolactone*
Irritating to eyes.
Ethylene Glycol, Monobutyl Ether Acetate
Contact with eyes may result in irritation.
Propylene carbonate
Contact with eyes may result in irritation.

Inhalation *4-butyrolactone*
Inhalation may result in respiratory irritation.
Ethylene Glycol, Monobutyl Ether Acetate
Inhalation may result in respiratory irritation.

Ingestion *4-butyrolactone*
Harmful if swallowed. May depress the central nervous system.
Ethylene Glycol, Monobutyl Ether Acetate
Swallowing large amounts may cause digestive discomfort. Harmful if swallowed.

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation.
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 Harmful by inhalation, in contact with skin and if swallowed. Irritating to respiratory system.

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

Other information This light magenta ink is classified for health and environmental effects according to EU Directive 1999/45/EC with Xn R20/21/22; Xn R37; and R52/53



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	> 75	203-933-3	Xn, R20/21, 52/53, 37
4-butyrolactone	96-48-0	< 10	202-509-5	Xi, Xn, R22, 36
Propylene carbonate	108-32-7	< 10	203-572-1	Xi, R36
Composition comments	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 person to fresh air immediately. If symptoms persist, get immediate medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
Ingestion	If material is ingested, immediately contact a physician or poison control centre.

5. FIRE-FIGHTING MEASURES

Flash point and method	82 °C (179.6 °F); Cleveland Open Cup
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam. Avoid using a direct stream of water.
Extinguishing media which must not be used for safety reasons	high volume water jet
Unusual fire & explosion hazards	Combustible liquid. Many liquids are lighter than water. Vapors may travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Hazardous combustion products	Refer to section 10. Oxides of carbon/nitrogen/sulfur, and water.
Specific methods	Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity. Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove all sources of ignition. Avoid contact with skin. 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	Use spark-proof tools and explosion-proof equipment. Keep this product from heat, sparks, or open flame. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. Use with adequate ventilation.
Storage	Keep away from heat, sparks and flame. Keep away from oxidizers. Store at ambient temperature and atmospheric pressure. Keep away from excessive heat or cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Belgium

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	333 mg/m3 50 ppm
	TWA	133 mg/m3



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Components	Type	Value
		20 ppm

Denmark

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	TLV	20 ppm 130 mg/m3

France

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	VLE	199.8 mg/m3 30 ppm
	VME	13.3 mg/m3 2 ppm

Germany

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	AGW	20 ppm 130 mg/m3

Italy

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	333 mg/m3 50 ppm
	TWA	133 mg/m3 20 ppm

Netherlands

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	333 mg/m3 50 ppm
	TWA	135 mg/m3 20 ppm

Spain

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	333 mg/m3 50 ppm
	TWA	133 mg/m3 20 ppm

Sweden

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	140 mg/m3 20 ppm
	TWA	70 mg/m3



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Components	Type	Value
		10 ppm

Switzerland

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	540 mg/m ³
		80 ppm
	TWA	135 mg/m ³
		20 ppm

United Kingdom

Components	Type	Value
Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	STEL	50 ppm
	TWA	20 ppm

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. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid.
Form	Not available.
Color	light magenta
Odor	Not available.
Odour threshold	Not available.
pH	Not available.
Boiling point	184 °C (363.2 °F)
Flash point	82 °C (179.6 °F); Cleveland Open Cup
Flammability	Not available.
Flammability limits in air, upper, % by volume	1.7 % v/v
Flammability limits in air, lower, % by volume	8.4 % v/v
Vapor pressure	0.4 hPa
Relative density	Not available.
Solubility (water)	not miscible
Partition coefficient (n-octanol/water)	Not available.
Viscosity	Not available.
Vapor density	Not available.
Evaporation rate	Not determined
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not available.



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Specific gravity 0.97 g/mL
VOC 89.3 % w/w

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.
Materials to avoid Strong oxidizing agents. This product may react with strong acids. This product may react with strong alkalis.
Hazardous decomposition products Oxides of carbon/nitrogen/sulfur, and water. Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
Hazardous polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

4-butyrolactone (96-48-0) Inadequate data.

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

Aquatic toxicity This product has not been tested for ecological effects.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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

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: USA, Canada, China, European Union, Japan, South Korea, New Zealand, Switzerland.

Labeling

Contains

4-butyrolactone, Ethylene Glycol, Monobutyl Ether Acetate, Propylene carbonate

Symbol(s)



Harmful

R-phrases(s)

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R37 Irritating to respiratory system.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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S-phrase(s)

S13 Keep away from food, drink and animal feedingstuffs.
S20 When using do not eat or drink.
S23 Do not breathe vapours, aerosols.
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION**Manufacturer information**

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1000 NE Circle Boulevard
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List of relevant R phrases

R20/21 Harmful by inhalation and in contact with skin.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
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

01-08-2009

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