



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** CD984Series

**Product use** Inkjet printing

**Version #** 03

**Revision date** 15-Oct-2012

**Company identification** Hewlett-Packard Company  
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## 2. Hazards Identification

### Acute health effects

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

#### Skin contact

*Ethylene Glycol, Monobutyl Ether Acetate*  
Contact with skin may result in irritation. Harmful if absorbed through the skin.

#### Eye contact

*Ethylene Glycol, Monobutyl Ether Acetate*  
Contact with eyes may result in irritation.  
*Gamma Butyrolactone*  
Irritating to eyes.

#### Inhalation

*Ethylene Glycol, Monobutyl Ether Acetate*  
Inhalation may result in respiratory irritation.  
*Gamma Butyrolactone*  
Inhalation may result in respiratory irritation.

#### Ingestion

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

### 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.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	90 - 95
Gamma Butyrolactone	96-48-0	5 - 10

### Composition comments

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

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## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, get medical attention.
<b>Ingestion</b>	If material is ingested, immediately contact a physician or poison control center.
<b>General advice</b>	No additional information

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## 5. Fire Fighting Measures

<b>Flammable properties</b>	Combustible liquid. Many liquids are lighter than water. Vapors may travel to a source of ignition and flash back.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	high volume water jet
<b>Specific methods</b>	Standard procedure for chemical fires. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.
<b>Hazardous combustion products</b>	Refer to section 10.

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## 6. Accidental Release Measures

<b>Personal precautions</b>	Remove all sources of ignition. Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Other information</b>	Use spark-proof tools and explosion-proof equipment. Soak up with inert absorbent material. Use personal protective equipment to minimize exposure to skin and eye. Dispose of in compliance with federal, state, and local regulations.

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## 7. Handling and Storage

<b>Handling</b>	Use spark-proof tools and explosion-proof equipment. Keep this product from heat, sparks, or open flame. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep away from sources of ignition - No smoking.
<b>Storage</b>	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.

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## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value
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Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)	TWA	20.0000 ppm
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<b>Exposure guidelines</b>	Exposure limits have not been established for this product.
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<b>Engineering controls</b>	Use in a well ventilated area.
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### Personal protective equipment

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Use personal protective equipment to minimize exposure to skin and eye.

#### General

Use personal protective equipment to minimize exposure to skin and eye.

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## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid

<b>Form</b>	Not available.
<b>pH</b>	Not determined
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	375.8 °F (191 °C)
<b>Flash point</b>	181.4 °F (83 °C) Cleveland Open Cup
<b>Evaporation rate</b>	Not determined
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	0.04 hPa @ 20°C
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.97
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	1.1 %
<b>Auto-ignition temperature</b>	644 °F (340 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not determined
<b>VOC</b>	< 970 g/L
<b>Other information</b>	For other VOC regulatory data/information see section 15.

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Incompatible materials</b>	Strong oxidizing agents. This product may react with strong acids. This product may react with strong alkalies.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Possibility of hazardous reactions</b>	Will not occur.

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## 11. Toxicological Information

### Carcinogenicity

#### ACGIH Carcinogens

Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Gamma Butyrolactone (CAS 96-48-0) 3 Not classifiable as to carcinogenicity to humans.

#### IARC Monographs: Evidence of carcinogenicity in humans

Gamma Butyrolactone (CAS 96-48-0) Inadequate data.

**Serious eye damage/eye irritation** Not available.

### Symptoms and target organs

#### Target Organs (NIOSH)

Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2) Blood  
Central Nervous System  
Eyes  
Hemato system  
Kidneys  
Liver  
Lymphoid system  
Respiratory system  
Skin

**Further information** This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

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## 12. Ecological Information

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

**Persistence and degradability** Not available.

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## 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.

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## 14. Transport Information

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

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## 15. Regulatory Information

**US federal regulations** US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA. US TSCA 12(b): Does not contain listed chemicals.

### DEA Exempt Chemical Mixtures Code Number

Gamma Butyrolactone (CAS 96-48-0) 2011

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Gamma Butyrolactone (CAS 96-48-0) 70 %WV

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA (Superfund) reportable quantity

None

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200** Yes  
**hazardous chemical**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

### State regulations

#### US - New Jersey RTK - Substances: Listed substance

Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2) Listed.

#### US. Massachusetts RTK - Substance List

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

#### US. Pennsylvania RTK - Hazardous Substances

Not regulated.

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## US. Rhode Island RTK

Not regulated.

### Other information

All ingredients are listed on EINECS and/or ELINCS or exempt. VOC content (less water, less exempt compounds) = < 970 g/L (U.S. requirement, not for emissions)  
VOC data based on formulation (Organic compounds minus solids)

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## 16. Other Information

### Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

### HMIS® ratings

Health: 1  
Flammability: 2  
Physical hazard: 0

### NFPA ratings

Health: 1  
Flammability: 2  
Instability: 0

### 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

15-Oct-2012

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

9. Physical & Chemical Properties: Other information  
14. Transport Information: Further information  
15. Regulatory Information: Other information

### Manufacturer information

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### Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds