



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** CD987Series

**Product use** Inkjet printing

**Version #** 07

**Revision date** 16-Oct-2012

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

### Acute health effects

**Skin contact** Prolonged and/or repeated skin contact may result in mild irritation or redness.  
*diethylene glycol monobutyl ether acetate*  
Prolonged and/or repeated skin contact may result in mild irritation or redness.

**Eye contact** Direct contact with the eye may cause discomfort and redness. Direct contact with the eye may cause discomfort and redness.  
*diethylene glycol monobutyl ether acetate*  
Direct contact with the eye may cause discomfort and redness.

**Inhalation** High vapor concentrations are irritating to eye and respiratory tract.  
*diethylene glycol monobutyl ether acetate*  
Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

**Ingestion** Ingestion may result in nausea, vomiting and diarrhea.  
*diethylene glycol monobutyl ether acetate*  
Ingestion may result in nausea, vomiting and diarrhea.

### 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
diethylene glycol monobutyl ether acetate	124-17-4	< 100

**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

**Flammable properties** Combustible liquid. Many liquids are lighter than water.

### Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** high volume water jet

**Specific methods** 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.

**Hazardous combustion products** Refer to section 10.

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## 6. Accidental Release Measures

**Personal precautions** Remove all sources of ignition. Wear appropriate personal protective equipment.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Other information** 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

**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. Use with adequate ventilation. Keep away from sources of ignition - No smoking.

**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.

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## 8. Exposure Controls / Personal Protection

**Exposure guidelines** Exposure limits have not been established for this product.

**Engineering controls** Use in a well ventilated area.

### Personal protective equipment

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

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

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## 9. Physical & Chemical Properties

**Appearance** Not available.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**Physical state** Liquid

**Form** Not available.

**pH** Not available.

**Melting point** Not available.

**Freezing point** Not available.

**Boiling point** 476.6 °F (247 °C)

**Flash point** 221 °F (105 °C) Pensky-Martens Closed Cup

<b>Evaporation rate</b>	Not available.
<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>	0.0133 hPa @ 20°C
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.98
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	6.5 % w/w
<b>Auto-ignition temperature</b>	660.2 °F (349 °C)
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	< 980 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

<b>Serious eye damage/eye irritation</b>	Not available.
<b>Further information</b>	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

<b>Aquatic toxicity</b>	This product has not been tested for ecological effects.
<b>Persistence and degradability</b>	Not available.

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## 13. Disposal Considerations

<b>Disposal instructions</b>	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

<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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### **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

<b>US federal regulations</b>	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.
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### **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

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

Not regulated.

**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 hazardous chemical** Yes

**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. 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.

**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) = < 980 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**

16-Oct-2012

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

Product and Company Identification: Alternate Trade Names  
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