1. Product and Company Identification

Identification of the preparation  CD986Series
Product use  Inkjet printing
Version #  04
Revision date  16-Oct-2012
Company identification  Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501
Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

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.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate</td>
<td>112-07-2</td>
<td>90 - 95</td>
</tr>
<tr>
<td>Gamma Butyrolactone</td>
<td>96-48-0</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

Composition comments  This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).
4. First Aid Measures

First aid procedures

Eye contact
Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

Skin contact
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 material is ingested, immediately contact a physician or poison control center.

General advice
No additional information

5. Fire Fighting Measures

Flammable properties
Combustible liquid. Many liquids are lighter than water. Vapors may travel to a source of ignition and flash back.

Extinguishing media
Suitable extinguishing media
Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media
high volume water jet

Specific methods
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.

Hazardous combustion products
Refer to section 10.

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.

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.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>ACGIH Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)</td>
<td>TWA</td>
<td>20.0000 ppm</td>
</tr>
</tbody>
</table>

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

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

9. Physical & Chemical Properties

Appearance
Not available.

Color
Not available.

Odor
Not available.

Odor threshold
Not available.

Physical state
Liquid
### 10. Chemical Stability & Reactivity Information

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

### 11. Toxicological Information

#### Carcinogenicity

<table>
<thead>
<tr>
<th>Source</th>
<th>Carcinogenicity Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH Carcinogens</td>
<td>A3</td>
<td>Confirmed animal carcinogen with unknown relevance to humans.</td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)</td>
<td>A3</td>
<td>Confirmed animal carcinogen with unknown relevance to humans.</td>
</tr>
<tr>
<td>IARC Monographs. Overall Evaluation of Carcinogenicity</td>
<td>3</td>
<td>Not classifiable as to carcinogenicity to humans.</td>
</tr>
<tr>
<td>Gamma Butyrolactone (CAS 96-48-0)</td>
<td>3</td>
<td>Not classifiable as to carcinogenicity to humans.</td>
</tr>
<tr>
<td>IARC Monographs: Evidence of carcinogenicity in humans</td>
<td>Inadequate data.</td>
<td>Inadequate data.</td>
</tr>
<tr>
<td>Gamma Butyrolactone (CAS 96-48-0)</td>
<td>Inadequate data.</td>
<td>Inadequate data.</td>
</tr>
</tbody>
</table>

#### Serious eye damage/eye irritation

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

#### Symptoms and target organs

<table>
<thead>
<tr>
<th>Target Organs (NIOSH)</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)</td>
<td>Blood</td>
</tr>
<tr>
<td>Central Nervous System</td>
<td></td>
</tr>
<tr>
<td>Eyes</td>
<td></td>
</tr>
<tr>
<td>Hemato system</td>
<td></td>
</tr>
<tr>
<td>Kidneys</td>
<td></td>
</tr>
<tr>
<td>Liver</td>
<td></td>
</tr>
<tr>
<td>Lymphoid system</td>
<td></td>
</tr>
<tr>
<td>Respiratory system</td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td></td>
</tr>
</tbody>
</table>

#### 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.
12. Ecological Information
Aquatic toxicity
This product has not been tested for ecological effects.
Persistence and degradability
Not available.

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
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.

15. Regulatory Information
US federal regulations
All ingredients are listed or exempt 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
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 - 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.
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)

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

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