



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** CC667A  
**Use of the preparation** Inkjet printing  
**Version #** 01  
**Revision date** 01-09-2009  
**Company identification** Hewlett-Packard Company  
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**Date prepared** Jan 09, 2009  
**MSDS number** 244295

## 2. Hazards Identification

**Emergency overview** Combustible liquid. Strong, offensive odor. Inhalation may result in respiratory irritation. Contact with skin and eyes may result in irritation.

### 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

*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.

#### Chronic health effects

Complete toxicity data are not available for this specific formulation  
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.



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## 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	> 75
4-butyrolactone	96-48-0	< 10
Propylene Carbonate	108-32-7	< 10
<b>Composition comments</b>	This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).	

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
<b>Ingestion</b>	If material is ingested, immediately contact a physician or poison control center.

## 5. Fire Fighting Measures

<b>Flash point and method</b>	179.6 °F (82 °C); Cleveland Open Cup
<b>Hazardous combustion products</b>	Refer to section 10. Oxides of carbon/nitrogen/sulfur, and water.
<b>Flammable properties</b>	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.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Avoid using a direct stream of water.
<b>Unsuitable extinguishing media</b>	high volume water jet
<b>Unusual fire and explosion hazard</b>	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.
<b>Special firefighting procedures</b>	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. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.

## 6. Accidental Release Measures

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

## 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

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

#### Exposure guidelines

Exposure limits have not been established for this product.

#### Personal protective equipment

##### General

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

##### General hygiene considerations

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

## 9. Physical & Chemical Properties

Color	cyan
Odor threshold	Not available.
Physical state	Liquid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	363.2 °F (184 °C)
Flash point	179.6 °F (82 °C); Cleveland Open Cup
Evaporation rate	Not determined
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
Vapor density	Not available.
Specific gravity	0.97 g/mL
Relative density	Not available.
Solubility (water)	Not miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	not self igniting
Decomposition temperature	Not available.
VOC	89.3 % w/w

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Strong oxidizing agents. This product may react with strong acids. This product may react with strong alkalies.
Hazardous decomposition products	Oxides of carbon/nitrogen/sulfur, and water. Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
Possibility of hazardous reactions	Will not occur.



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## 11. Toxicological Information

### Carcinogenicity

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

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

**US ACGIH Threshold Limit Values: A3 carcinogen**

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

### Symptoms and target organs

#### Target Organs (NIOSH)

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

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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

### IATA

Not regulated as dangerous goods.

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

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## 15. Regulatory Information

**US federal regulations** All ingredients are listed or exempt US TSCA 12(b): Does not contain listed chemicals.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Ethylene Glycol, Monobutyl Ether Acetate (112-07-2) 1.0 % N230

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Ethylene Glycol, Monobutyl Ether Acetate (112-07-2) N230 Listed.

### CERCLA (Superfund) reportable quantity

None

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

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**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, Philippines, New Zealand, Switzerland.



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## State regulations

**US - New Jersey Community RTK (EHS Survey): Listed substance**

Ethylene Glycol, Monobutyl Ether Acetate (112-07-2) Substance no. 3138

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Ethylene Glycol, Monobutyl Ether Acetate (112-07-2) 500 LBS

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

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

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## 16. Other Information

### HMIS® ratings

Health: 1  
Flammability: 2  
Physical hazard: 0

### NFPA ratings

Health: 1  
Flammability: 2  
Instability: 0

### Issue date

Jan 9 2009 2:48PM

### Revision

1

### Replaces sheet dated

Jan 8 2009 11:30PM

### 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)
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

### Manufacturer information

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