



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** CC669Series

**Product use** Inkjet printing

**Version #** 01

**Revision date** 25-Apr-2012

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

**Emergency overview** Harmful by inhalation and in contact with skin. Irritating to eyes. Inhalation may result in respiratory irritation.

**Acute health effects**

**Skin contact** Avoid contact with skin.  
Harmful in contact with skin.  
*2-Butoxyethyl acetate*  
Contact with skin may result in irritation. Harmful if absorbed through the skin.

**Eye contact** Causes eye irritation. Avoid contact with eyes. Contact with eyes may result in irritation and Irritating to eyes.  
*2-Butoxyethyl acetate*  
Contact with eyes may result in irritation.  
*Gamma Butyrolactone*  
Irritating to eyes.  
*Propylene Carbonate*  
Contact with eyes may result in irritation.

**Inhalation** Avoid breathing vapors or mists of this product.  
Harmful if inhaled.  
*2-Butoxyethyl acetate*  
Inhalation may result in respiratory irritation.  
*Gamma Butyrolactone*  
Inhalation may result in respiratory irritation.

**Ingestion** May be harmful if swallowed.  
*2-Butoxyethyl 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** Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

**Carcinogenicity**

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk.

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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**3. Composition / Information on Ingredients**

Components	CAS #	Percent
2-Butoxyethyl acetate	112-07-2	70 - 80
Carbon black	1333-86-4	2.5 - 5
Gamma Butyrolactone	96-48-0	2.5 - 5
Propylene Carbonate	108-32-7	2.5 - 5
Vinyl chloride-vinyl acetate copolymer	Proprietary	2.5 - 5
High molecular weight block copolymer with pigment affinic groups	No Data	1 - 2.5

**Composition comments** Carbon black is present only in a bound form in this preparation.

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**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.

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**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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam. Avoid using a direct stream of water.

**Unsuitable extinguishing media** high volume water jet

**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.

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

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**6. Accidental Release Measures**

**Personal precautions** Avoid contact with skin 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** 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.

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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. 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.

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## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value	Form
2-Butoxyethyl acetate (112-07-2)	TWA	20.0000 ppm	
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.

#### U.S. - Tennessee

Components	Type	Value
Carbon black (1333-86-4)	TWA	3.5000 mg/m3

**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

<b>Appearance</b>	Not available.
<b>Color</b>	Black.
<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 available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	363.2 °F (184 °C)
<b>Flash point</b>	179.6 °F (82 °C) Cleveland Open Cup
<b>Evaporation rate</b>	not determined
<b>Flammability limits in air, upper, % by volume</b>	< 1.7 % v/v
<b>Flammability limits in air, lower, % by volume</b>	> 8.4 % v/v
<b>Vapor pressure</b>	0.4 hPa
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.97
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not miscible
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	88.6 % w/w

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## 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

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.

### ACGIH Carcinogens

2-Butoxyethyl acetate (CAS 112-07-2)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Gamma Butyrolactone (CAS 96-48-0)

3 Not classifiable as to carcinogenicity to humans.

Vinyl chloride-vinyl acetate copolymer (CAS Proprietary)

3 Not classifiable as to carcinogenicity to humans.

### IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (CAS 1333-86-4)

Inadequate data.

Gamma Butyrolactone (CAS 96-48-0)

Inadequate data.

Vinyl chloride-vinyl acetate copolymer (CAS Proprietary)

No data.

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

### Symptoms and target organs

#### Target Organs (NIOSH)

2-Butoxyethyl acetate (CAS 112-07-2)

Blood  
Central Nervous System  
Eyes  
Hemato system  
Kidneys  
Liver  
Lymphoid system  
Respiratory system  
Skin  
Eyes  
Respiratory system

Carbon black (CAS 1333-86-4)

### Further information

Complete toxicity data are not available for this specific formulation

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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.

**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 - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No**Section 302 extremely hazardous substance** No**Section 311 hazardous chemical** Yes**State regulations****US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Carbon black (CAS 1333-86-4) Listed.

**Regulatory information** Notified according to EU Regulations.

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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: 2  
Flammability: 2  
Physical hazard: 1**NFPA ratings** Health: 2  
Flammability: 2  
Instability: 1**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** 25-Apr-2012**This data sheet contains changes from the previous version in section(s):** 14. Transport Information: Further information**Manufacturer information** Hewlett-Packard Company  
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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