# 1. Product and Company Identification

**CB335 Series Material name** Use of the preparation Inkjet printing

09 Version #

**Revision date** 08-13-2008 CAS# Mixture

Hewlett-Packard Company Manufacturer information

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

Hewlett-Packard health effects line

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

General information telephone number

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551 Aug 06, 2008 **Date prepared** MSDS number 302439

### 2. Hazards Identification

Contact with skin and eyes may result in irritation. **Emergency overview** 

Acute health effects

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

Potential health effects

Potential routes of overexposure to this product are skin and eye contact Routes of exposure

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

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

Component/substance	CAS number	% by weight	
Water	7732-18-5	< 80	
1,5-pentanediol	111-29-5	< 10	
2-pyrrolidone	616-45-5	< 10	
Modified Carbon Black #6	Proprietary	< 10	
Substituted diol	Proprietary	< 2.5	
Composition comments	This ink supply contains an aqueous ink formulation.		

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

Material name CB335 SERIES Creation date Sep 29, 2003

MSDS US



4. First Aid Measures

First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for

at least 15 minutes or until particles are removed. 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 ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup Flash point and method

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting procedures

None established.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

**Environmental precautions** 

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

Methods for containment

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay,

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Other information

Soak up with inert absorbent material.

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or

other sealed container. Dispose of in compliance with federal, state, and local regulations.

See also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Keep out of the reach of children. Keep away from excessive heat or cold. Storage

8. Exposure Controls / Personal Protection

**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 eve. General hygeine

considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Black

Odor threshold Not available. Not available. Physical state 7.5 - 8.2pН Not available. Melting point

Material name CB335 SERIES MSDS US Creation date Sep 29, 2003 Version number 11 2/5



Freezing point Not available.

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density

Solubility in water

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC < 3 % Viscosity > 2 cp

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

# 11. Toxicological Information

Not available.

## 12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =>750 mg/L.

Persistence and degradability Not available.

### 13. Disposal Considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine

if this service is available in your location, please visit http://www.hp.com/recycle.

Material name CB335 SERIES Creation date Sep 29, 2003

# 14. Transport Information

### IATA

Proper shipping name Not applicable Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None
Packaging non bulk None
Labels required None

### 15. Regulatory Information

US federal regulations US TSCA 12(b): Contains sodium nitrite (CASRN 7632-00-0), subject to export notification

requirements.

### **CERCLA (Superfund) reportable quantity**

None

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

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South

Korea, New Zealand, and China.

### State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed.

## 16. Other Information

Issue date

HMIS® ratings Health: 1

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Aug 6 2008 1:21PM

Revision 9

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.

Material nameCB335 SERIESMSDS USCreation dateSep 29, 2003Version number114 / 5

### **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

### 1. Product and Company Identification

**CB336 Series Material name** Use of the preparation Inkjet printing

09 Version #

**Revision date** 08-13-2008 CAS# Mixture

Hewlett-Packard Company Manufacturer information

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

Hewlett-Packard health effects line

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

General information telephone number

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551 Aug 06, 2008 **Date prepared** MSDS number 302440

### 2. Hazards Identification

Contact with skin and eyes may result in irritation. **Emergency overview** 

Acute health effects

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

Potential health effects

Potential routes of overexposure to this product are skin and eye contact Routes of exposure

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

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

Component/substance	CAS number	% by weight	
Water	7732-18-5	< 80	
1,5-pentanediol	111-29-5	< 10	
2-pyrrolidone	616-45-5	< 10	
Modified Carbon Black #6	Proprietary	< 10	
Substituted diol	Proprietary	< 2.5	
Composition comments	This ink supply contains an aqueous ink formulation.		

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

Material name CB336 SERIES Creation date Sep 29, 2003

4. First Aid Measures

First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for

at least 15 minutes or until particles are removed. 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 ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup Flash point and method

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting procedures None established.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

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

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, Methods for containment

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Soak up with inert absorbent material. Methods for cleaning up

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or

other sealed container. Dispose of in compliance with federal, state, and local regulations.

See also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Keep out of the reach of children. Keep away from excessive heat or cold. Storage

8. Exposure Controls / Personal Protection

**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 eve. General hygeine

considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Black

Odor threshold Not available. Not available. Physical state 7.5 - 8.2pН Not available.

Melting point

Material name CB336 SERIES MSDS US Creation date Sep 29, 2003 Version number 11 2/5



Freezing point Not available.

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density

Solubility in water

Partition coefficient

Not available.

(n-octanol/water)
Auto-ignition temperature

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC < 3 % Viscosity > 2 cp

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

# 11. Toxicological Information

Not available.

# 12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =>750 mg/L.

Persistence and degradability Not available.

### 13. Disposal Considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine

if this service is available in your location, please visit http://www.hp.com/recycle.

Material name CB336 SERIES Creation date Sep 29, 2003

# 14. Transport Information

### IATA

Proper shipping name Not applicable **Hazard class** Not applicable

None **UN** number Packing group N/A None Packaging exceptions Packaging non bulk None None Labels required

### 15. Regulatory Information

US federal regulations US TSCA 12(b): Contains sodium nitrite (CASRN 7632-00-0), subject to export notification

### **CERCLA (Superfund) reportable quantity**

None

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

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South

Korea, New Zealand, and China.

### State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed

# 16. Other Information

**HMIS®** ratings Health: 1

Flammability: 1

Physical hazard: 0

**NFPA** ratings Health: 1

Flammability: 1 Instability: 0

Issue date Aug 6 2008 1:21PM

Revision

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 quaranteeing 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.

Material name CB336 SERIES MSDS US Creation date Sep 29, 2003 Version number 11 4/5

### **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

# 1. Chemical Product and Company Identification

**CB337 Series Material name** Use of the preparation Inkjet printing

Version # 06

**Revision date** 19-Jun-2008 CAS# Mixture

**Manufacturer information Hewlett-Packard Company** 

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

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

**General information telephone number** 

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 1-208-323-2551 (Direct) Jun 19, 2008 **Date prepared MSDS** number 292096

### 2. Hazards Identification

**Emergency overview** 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

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

Material name CB337 SERIES MSDS US Creation date Nov 03, 2003 1 / 7

Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation. Substituted naphthalenesulfonate salt # 11 Contact with eyes may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation.

**Inhalation** 

2-pyrrolidone

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

**Ingestion** 

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

**Potential health effects** 

**Routes of exposure** Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

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 Component/Substance

Component/Substance	CAS Number	% By Weight	
Cyan ink			
Water	7732-18-5	> 60	
1,5-pentanediol	111-29-5	< 10	
Ethyl alkyldiol	Proprietary	< 7.5	
2-pyrrolidone	616-45-5	< 7.5	
Substituted phthalocyanine salt # 4	Proprietary	< 5	
Metal nitrate # 2	Proprietary	< 5	
Alkyldiol ethoxylate	Proprietary	< 2.5	



Magenta ink			
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 7.5
2-pyrrolidone		616-45-5	< 7.5
Substituted naphthalenesulfonat	e salt # 11	Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
Alkyldiol ethoxylate		Proprietary	< 2.5
Yellow ink			
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 7.5
2-pyrrolidone		616-45-5	< 7.5
Substituted naphthalenesulfonat	e salt # 13	Proprietary	< 7.5
Metal nitrate # 2		Proprietary	< 5
Alkyldiol ethoxylate		Proprietary	< 2.5
			n. ified in 29 CFR 1910.1200 (Hazard

### 4. First Aid Measures

First aid procedures

**Eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure)

for at least 15 minutes or until particles are removed. 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.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

**Flash point and method** > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

**Unusual fire and explosion** 

hazard

None known.

Special firefighting

procedures

None established.

### **6. Accidental Release Measures**

**Personal precautions** Wear appropriate personal protective equipment.

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

**Methods for containment** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay,

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Material nameCB337 SERIESMSDS USCreation dateNov 03, 2003Version number 73 / 7



Methods for cleaning up

Soak up with inert absorbent material.

Other information

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See

also section 13 Disposal considerations.

7. Handling and Storage

**Handling** Avoid contact with skin, eyes and clothing.

**Storage** Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls/Personal Protection

**Exposure guidelines** None established.

Personal protective equipment

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

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

**Color** Cyan, magenta, yellow

Odor threshold Not available

Physical state Liquid. pH 6.2 - 6.8

Melting pointNot availableFreezing pointNot availableBoiling pointNot determined

**Flash point** > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available

Flammability limits in air, upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density

Solubility in water

Partition coefficient

Not available

Not available

(n-octanol/water)

Auto-ignition temperature Not available

Decomposition temperature Not available

**VOC** < 3 % **Viscosity** > 2 cp



# 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

**Hazardous decomposition** 

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

**Possibility of hazardous** 

reactions

Will not occur.

# 11. Toxicological Information

Not available

# 12. Ecological Information

**Aquatic toxicity** 

Cyan ink

LC50/96h/Fathead minnows =< 400 mg/L

Magenta ink

LC50/96h/Fathead minnows =< 400 mg/L

LC50/96h/Fathead minnows =< 400 mg/L

Persistence and degradability Not available

### 13. Disposal Considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

> HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if

this service is available in your location, please visit http://www.hp.com/recycle.

# 14. Transportation Information

### **Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

**IATA** 

Proper shipping name Not applicable **Hazard class** Not applicable

**UN number** None Packing group N/A **Packaging exceptions** None

# 15. Regulatory Information

**US federal regulations** US TSCA 12(b): Does not contain listed chemicals.

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name CB337 SERIES MSDS US Creation date Nov 03, 2003

Section 302 extremely hazardous substance

No

**Section 311 hazardous** 

chemical

No

**International regulations** 

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 Proprietary

Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 Proprietary sn 1143

16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

**Issue date** Jun 19 2008 12:54AM

**Revision** 6

Replaces sheet dated Jun 7 2008 9:15AM

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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.

Material nameCB337 SERIESMSDS USCreation dateNov 03, 2003Version number 76 / 7



### **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

# 1. Chemical Product and Company Identification

**Material name CB338 Series** Use of the preparation Inkjet printing

Version # 06

**Revision date** 19-Jun-2008 CAS# Mixture

**Manufacturer information Hewlett-Packard Company** 

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

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

**General information telephone number** 

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 1-208-323-2551 (Direct) Jun 19, 2008 **Date prepared MSDS** number 292097

### 2. Hazards Identification

**Emergency overview** 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

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

Material name CB338 SERIES MSDS US Creation date Nov 03, 2003 1 / 7

Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation. Substituted naphthalenesulfonate salt # 11 Contact with eyes may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

**Ingestion** 

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Metal nitrate # 2

None known.

Contains nitrate salts, may cause methemoglobinemia.

**Potential health effects** 

**Routes of exposure** Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

**Chronic health effects** 

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

Component/Substance	<b>CAS Number</b>	% By Weight
Cyan ink		
Water	7732-18-5	> 60
1,5-pentanediol	111-29-5	< 10
Ethyl alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Substituted phthalocyanine salt # 4	Proprietary	< 5
Metal nitrate # 2	Proprietary	< 5
Alkyldiol ethoxylate	Proprietary	< 2.5

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Magenta ink			
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 7.5
2-pyrrolidone		616-45-5	< 7.5
Substituted naphthalenesulfonat	e salt # 11	Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
Alkyldiol ethoxylate		Proprietary	< 2.5
Yellow ink			
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 7.5
2-pyrrolidone		616-45-5	< 7.5
Substituted naphthalenesulfonat	e salt # 13	Proprietary	< 7.5
Metal nitrate # 2		Proprietary	< 5
Alkyldiol ethoxylate		Proprietary	< 2.5
			n. ified in 29 CFR 1910.1200 (Hazard

### 4. First Aid Measures

First aid procedures

**Eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure)

for at least 15 minutes or until particles are removed. 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.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

**Flash point and method** > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

**Unusual fire and explosion** 

hazard

None known.

Special firefighting

None established.

procedures

### 6. Accidental Release Measures

**Personal precautions** Wear appropriate personal protective equipment.

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

**Methods for containment** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay,

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

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Methods for cleaning up

Soak up with inert absorbent material.

Other information

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See

also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

**Storage** Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls/Personal Protection

**Exposure guidelines** None established.

Personal protective equipment

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

**General hygeine** considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Cyan, magenta, yellow

**Odor threshold** Not available

**Physical state** Liquid. pН 6.2 - 6.8

**Melting point** Not available Freezing point Not available **Boiling point** Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Not determined **Evaporation rate** Not available. **Flammability** Flammability limits in air, Not available

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Not determined Vapor pressure > 1 (air = 1.0)Vapor density

Specific gravity 1 - 1.2

Relative density Not available Solubility in water Soluble in water **Partition coefficient** Not available

**Auto-ignition temperature** 

(n-octanol/water)

Not available **Decomposition temperature** Not available

VOC < 3 % **Viscosity** > 2 cp



# 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

**Hazardous decomposition** 

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

**Possibility of hazardous** 

reactions

Will not occur.

# 11. Toxicological Information

Not available

# 12. Ecological Information

**Aquatic toxicity** 

Cyan ink

LC50/96h/Fathead minnows =< 400 mg/L

Magenta ink

LC50/96h/Fathead minnows =< 400 mg/L

Yellow ink

LC50/96h/Fathead minnows =< 400 mg/L

Persistence and degradability Not available

### 13. Disposal Considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if

this service is available in your location, please visit http://www.hp.com/recycle.

# 14. Transportation Information

### **Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

**IATA** 

Proper shipping name Not applicable Hazard class Not applicable

UN numberNonePacking groupN/APackaging exceptionsNone

# 15. Regulatory Information

**US TSCA** 12(b): Does not contain listed chemicals.

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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Section 302 extremely hazardous substance

No

**Section 311 hazardous** 

chemical

No

**International regulations** 

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

TICW 2

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 Proprietary

Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 Proprietary sn 1143

16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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Section 1 above and may not meet regulatory requirements in other countries.

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### **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