

## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Identification of the

preparation

CB316Eseries

**Product use** Inkiet printing

Version # 09

**Revision date** 23-Oct-2012 CAS# Mixture

**Company identification Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

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## 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.

Eye contact 1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Inhalation 2-pyrrolidone

Inhalation may result in respiratory irritation.

**Ingestion** 2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

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

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly Carcinogenicity

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.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
1,5-pentanediol	111-29-5	< 7.5

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2-pyrrolidone	616-45-5	< 7.5	
Carbon black	1333-86-4	< 5	
Water	7732-18-5	> 75	

**Composition comments** This ink supply contains an agueous ink formulation.

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

Communication Standard).

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

### 4. First Aid Measures

First aid procedures

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

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. If irritation persists get medical

attention.

Inhalation Move to fresh air. If symptoms persist, get medical attention. **Ingestion** If ingestion of a large amount does occur, seek medical attention.

**General advice** No additional information

## 5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

**Unsuitable extinguishing** 

media

None known.

Specific methods None established. **Hazardous combustion** 

products

Refer to section 10.

#### 6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

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

**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

### Occupational exposure limits

**ACGIH** 

Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.

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**U.S. - Tennessee** 

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

Exposure limits have not been established for this product.

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

Personal protective equipment

**General hygiene** considerations

**Exposure guidelines** 

Handle in accordance with good industrial hygiene and safety practice.

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

## 9. Physical & Chemical Properties

**Appearance** Not available.

Color Black.

Odor Not available. **Odor threshold** Not available. **Physical state** Liquid

**Form** Not available.

Hα

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

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

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

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined Vapor density Not available. 1 - 1.2 Specific gravity

Not available. Relative density Soluble in water Solubility (water) **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

**Viscosity** 2 cp VOC < 179 g/L

Other information For other VOC regulatory data/information see section 15.

## 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** Will not occur.

reactions

### 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.

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**ACGIH Carcinogens** 

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.

IARC Monographs: Evidence of carcinogenicity in humans

Inadequate data. Carbon black (CAS 1333-86-4)

Serious eye damage/eye

Not available.

irritation

Symptoms and target organs Target Organs (NIOSH)

> Carbon black (CAS 1333-86-4) Eyes

> > Respiratory system

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

Persistence and degradability Not available.

13. Disposal Considerations

**Disposal instructions** Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkiet 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. Transport Information

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

DOT

Not regulated as dangerous goods.

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Not regulated as dangerous goods.

15. Regulatory Information

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

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated.

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA (Superfund) reportable quantity** 

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

hazardous chemical

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No

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

*--*41

chemical

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

**US - New Jersey RTK - Substances: Listed substance** 

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

**US. Massachusetts RTK - Substance List** 

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4)

**US. New Jersey Worker and Community Right-to-Know Act** 

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances** 

2-pyrrolidone (CAS 616-45-5) Listed. Carbon black (CAS 1333-86-4) Listed.

**US. Rhode Island RTK** 

Carbon black (CAS 1333-86-4)

**Regulatory information** 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.

**Other information** Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council

concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications

and amendments).

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 781 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: 1 Physical hazard: 0

**NFPA ratings** Health: 1

Flammability: 1 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** 23-Oct-2012

Material name: CB316Eseries MSDS US

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

15. Regulatory Information: Other information

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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

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