1. Product and Company Identification

Identification of the preparation: CB322 Series
Product use: Inkjet printing
Version #: 05
Revision date: 07-Jan-2013
CAS #: Mixture

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
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(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Acute health effects

Skin contact
- 1,5-pentanediol: Contact with skin may result in irritation.
- 2-pyrrolidone: Contact with skin may result in irritation.
- Ethyl alkyldiol: Contact with skin may result in mild irritation.

Eye contact
- 1,5-pentanediol: Contact with eyes may result in irritation.
- 2-pyrrolidone: Contact with eyes may result in irritation.
- Ethyl alkyldiol: Contact with eyes may result in mild 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 exposure under normal use conditions are skin and eye contact; and inhalation.

Chronic health effects: Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.

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>Water</td>
<td>7732-18-5</td>
<td>&lt; 80</td>
</tr>
<tr>
<td>Ethyl alkyldiol</td>
<td>Proprietary</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>
1,5-pentanediol 111-29-5 < 7.5
2-pyrrolidone 616-45-5 < 7.5
Sulfonated polyazo black dye Not available < 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).

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.

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.

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
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
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.

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: Liquid
pH: 6 - 8
Melting point: Not available.
Freezing point: Not available.
Boiling point: Not determined
Flash point: > 200 °F (> 93.3 °C) Setaflash Closed Tester
Evaporation rate: Not determined
Flammability limits in air, upper, % by volume: Not available.
Flammability limits in air, lower, % by volume: Not determined
Vapor pressure: Not determined
Vapor density: Not available.
Specific gravity: Not available.
Relative density: Not available.
Solubility (water): Soluble in water
Auto-ignition temperature: Not determined
Decomposition temperature: Not available.
VOC: < 233 g/l

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
Serious eye damage/eye irritation: Not available.
Sensitization: Did not cause sensitization on laboratory animals. (OECD 429)

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.

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.
15. Regulatory Information

**US federal regulations**

- **DEA Exempt Chemical Mixtures Code Number**
  Not regulated.

- **Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**
  Not regulated.

- **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**
  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 chemical**
  No

**State regulations**

- **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.

**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**

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) = < 1317 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

07-Jan-2013

This data sheet contains changes from the previous version in section(s):

9. Physical & Chemical Properties: Other information
14. Transport Information: Further information
15. Regulatory Information: Other information

Manufacturer 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