1. Product and Company Identification

**Material name**: CP508 Series

**Version #**: 03

**Issue date**: 29-Feb-2012

**Revision date**: 26-Nov-2013

**Product use**: Inkjet printing

**Synonym(s)**: HP BL100 Black Ink

**Company identification**: Hewlett-Packard Company

3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-5020

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048

HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

**Emergency overview**: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

**Potential health effects**

- **Eyes**: Irritating to eyes. Contact with eyes may result in irritation.
- **Skin**: Harmful in contact with skin.
- **Inhalation**: Harmful by inhalation. Inhalation may cause drowsiness or dizziness.
- **Ingestion**: Harmful if swallowed.

**Chronic effects**: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>&lt;70</td>
</tr>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate</td>
<td>108-65-6</td>
<td>&lt;15</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&lt;2.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl chloride-vinyl acetate copolymer</td>
<td>Proprietary</td>
<td>&lt;7.5</td>
</tr>
<tr>
<td>Black pigment</td>
<td>Mixture</td>
<td>&lt;5</td>
</tr>
<tr>
<td>High Molecular Weight Copolymer</td>
<td>Mixture</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Quaternary ammonium salt</td>
<td>Proprietary</td>
<td>&lt;2.5</td>
</tr>
</tbody>
</table>

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

4. First Aid Measures

**General advice**: No information
First aid procedures

**Eye contact**
Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. 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 the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

**Flammable properties**
Flammable Liquid.

**Extinguishing media**

Suitable extinguishing media
CO2, water, dry chemical, or foam

**Protection of firefighters**

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Fire fighting equipment/instructions**

Containers can build up pressure if exposed to heat (fire). Use water spray to cool unopened containers.

**Hazardous combustion products**
Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

**Personal precautions**
Evacuate the area promptly. Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Wear appropriate personal protective equipment.

**Environmental precautions**
Avoid release to the environment. Refer to special instructions/safety data sheets.

**Methods for cleaning up**
Prevent product from entering drains. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

**Handling**
Do not handle or store near an open flame, heat or other sources of ignition. Use with adequate ventilation. Take precautionary measures against static discharges.

**Storage**
Keep container closed when not in use. Keep away from heat and sources of ignition. Keep only in original container.

8. Exposure Controls / Personal Protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>STEL</td>
<td>250 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>STEL</td>
<td>300 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>PEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>PEL</td>
<td>260 mg/m3</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>PEL</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>PEL</td>
<td>590 mg/m3</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>PEL</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>
### US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>STEL</td>
<td>325 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>TWA</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>STEL</td>
<td>885 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>TWA</td>
<td>590 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

### US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

### US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>STEL</td>
<td>325 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td>Methyl Alcohol (CAS 67-56-1)</td>
<td>TWA</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>STEL</td>
<td>885 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>TWA</td>
<td>590 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

### Exposure guidelines

#### US. ACGIH Threshold Limit Values

Methyl Alcohol (CAS 67-56-1) Can be absorbed through the skin.

#### Engineering controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Explosion proof exhaust ventilation should be used.

#### Personal protective equipment

- **Eye / face protection**: Wear eye/face protection.
- **Skin protection**: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection**: Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### 9. Physical & Chemical Properties

- **Appearance**: Not available.
- **Physical state**: Not available.
- **Form**: Not available.
- **Color**: Black.
- **Odor**: Not available.
- **pH**: Not available.
- **Vapor pressure**: Not available.
- **Boiling point**: Not available.
- **Melting point/Freezing point**: Not available.
Solubility (water) Not available.
Specific gravity Not available.
Flash point 19.40 °F (-7.00 °C) Setaflash Closed Tester
VOC < 848 g/L
Other information No information available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage conditions.
Conditions to avoid No information available.
Incompatible materials Not available.
Hazardous decomposition products Stable under normal conditions.
Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Toxicological data

Components Species Test Results

ethanol (CAS 64-17-5)

Acute
Inhalation
LC50 Mouse 39 mg/l, 4 Hours
Rat 20000 mg/l, 10 Hours

Oral
LD50 Dog 5.5 g/kg
Guinea pig 5.6 g/kg
Mouse 3450 mg/kg
Rat 7060 mg/kg
6.2 g/kg

Other
LD50 Mouse 933 mg/kg
Rat 1440 mg/kg

Methyl Alcohol (CAS 67-56-1)

Acute
Dermal
LD50 Rabbit 15800 mg/kg

Inhalation
LC50 Cat 85.41 mg/l, 4.5 Hours
43.68 mg/l, 6 Hours
Rat 64000 mg/l, 4 Hours
87.5 mg/l, 6 Hours

Oral
LD50 Dog 8000 mg/kg
Monkey 2 g/kg
Mouse 7300 mg/kg
Rabbit 14.4 g/kg
Rat 5628 mg/kg

Other
LD50 Guinea pig 3556 mg/kg
**Components Test Results**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hamster</td>
<td>8555 mg/kg</td>
</tr>
<tr>
<td>Monkey</td>
<td>3 g/kg</td>
</tr>
<tr>
<td>Mouse</td>
<td>4100 mg/kg</td>
</tr>
<tr>
<td>Rabbit</td>
<td>1826 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>2131 mg/kg</td>
</tr>
</tbody>
</table>

Methyl Ethyl Ketone (CAS 78-93-3)

**Acute**

*Dermal*

LD50 Rabbit > 8000 mg/kg

*Inhalation*

LC50 Mouse 11000 mg/l, 45 Minutes
Rat 11700 mg/l, 4 Hours

*Oral*

LD50 Mouse 670 mg/kg
Rat 2300 - 3500 mg/kg

*Other*

LD50 Mouse 1660 g/kg, 24 Hours
Rat 12290 mg/kg, 24 Hours

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

**ACGIH Carcinogens**

ETHANOL (CAS 64-17-5) A3 Confirmed animal carcinogen with unknown relevance to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Vinyl chloride-vinyl acetate copolymer (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

**Further information**

Complete toxicity data are not available for this specific formulation.

12. Ecological Information

**Ecotoxicological data Components**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
</table>
| *Aquatic*  
  **Crustacea** EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours  
  **Fish** LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours  
| Methyl Alcohol (CAS 67-56-1)  
  **Aquatic**  
  **Crustacea** EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours  
  **Fish** LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours  
| Methyl Ethyl Ketone (CAS 78-93-3)  
  **Aquatic**  
  **Crustacea** EC50 Water flea (Daphnia magna) 4025 - 6440 mg/l, 48 hours  
  **Fish** LC50 Sheepskin minnow (Cyprinodon variegatus) > 400 mg/l, 96 hours  

Ecotoxicity
No information available.

Persistence and degradability
Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential
Octanol/water partition coefficient log Kow
- ethanol: -0.31
- Methyl Alcohol: 0.77
- Methyl Ethyl Ketone: 0.29

Partition coefficient
- ethanol: -0.31
- Methyl Alcohol: 0.77
- Methyl Ethyl Ketone: 0.29

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference
- Methyl Alcohol (CAS 67-56-1): U154
- Methyl Ethyl Ketone (CAS 78-93-3): U159

Disposal instructions
- Do not dispose of together with general office waste.
- Do not allow this material to drain into sewers/water supplies.
- Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
- Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport Information

DOT
Basic shipping requirements:
- UN number: UN1210
- Proper shipping name: Printing Ink
- Hazard class: 3
- Packing group: II

IATA
- UN number: UN1210
- Proper shipping name: Printing Ink
- Transport hazard class(es): 3
- Packing group: II

IMDG
- UN number: UN1210
- Proper shipping name: Printing Ink
- Transport hazard class(es): 3
- Packing group: II

RID
Basic shipping requirements:
- Proper shipping name: Printing Ink
- Hazard class: 3
- UN number: 1210
- Packing group: II

Material name: CP508 Series
Version #: 03 Revision date: 26-Nov-2013 Issue date: 29-Feb-2012
15. Regulatory Information

**US federal regulations**

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

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

Methyl Ethyl Ketone (CAS 78-93-3) 145 KG_W
50 GALLONS_V 6714

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

Methyl Ethyl Ketone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Methyl Ethyl Ketone (CAS 78-93-3) 6714

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

Methyl Alcohol (CAS 67-56-1) 1.0 %

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

Methyl Alcohol (CAS 67-56-1) Listed.

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

Not regulated.

**CERCLA (Superfund) reportable quantity**

Methyl Ethyl Ketone: 5000
Methyl Alcohol: 5000

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

**Hazard categories**

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

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**Other information**

VOC content (less water, less exempt compounds) = < 848 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

**Other regulations**

Notified according to EU Regulations.
State regulations

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**


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

- ethanol (CAS 64-17-5) Listed.
- Methyl Alcohol (CAS 67-56-1) Listed.
- Methyl Ethyl Ketone (CAS 78-93-3) Listed.

**US - Massachusetts RTK - Substance List**

- ethanol (CAS 64-17-5)
- Methyl Alcohol (CAS 67-56-1)
- Methyl Ethyl Ketone (CAS 78-93-3)

**US - Pennsylvania RTK - Hazardous Substances**

- ethanol (CAS 64-17-5) Listed.
- Methyl Alcohol (CAS 67-56-1) Listed.
- Methyl Ethyl Ketone (CAS 78-93-3) Listed.

**US - Rhode Island RTK**

- ethanol (CAS 64-17-5)
- Methyl Alcohol (CAS 67-56-1)
- Methyl Ethyl Ketone (CAS 78-93-3)

16. Other Information

**HMIS® ratings**

- Health: 2
- Flammability: 3
- Physical hazard: 0

**NFPA ratings**

- Health: 2
- Flammability: 3
- 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.

**Other information**

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

**Issue date**

29-Feb-2012

**Manufacturer information**

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) +972 (9) 892-4628
# Explanation of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>COC</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act (aka SARA)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>REC</td>
<td>Recommended</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act of 1986</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>