1. Product and Company Identification

Identification of the preparation: CH144Series
Synonym(s): HP SC100 Black Ink
Product use: Inkjet printing
Version #: 03
Revision date: 13-Mar-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
(Direct) 1-503-494-7199
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 by inhalation and in contact with skin. Contact with skin and eyes may result in irritation. Inhalation may result in respiratory irritation.

Acute health effects

Skin contact
Avoid contact with skin.
Harmful in contact with skin.

Ethylene Glycol, Monobutyl Ether Acetate
Contact with skin may result in irritation. Harmful if absorbed through the skin.

Eye contact
Avoid contact with eyes.
Contact with eyes may result in irritation. Contact with eyes may result in irritation.

Ethylene Glycol, Monobutyl Ether Acetate
Contact with eyes may result in irritation.

Propylene Glycol Monomethyl Ether Acetate
Contact with eyes may result in irritation.

Inhalation
Avoid breathing vapors or mists of this product.
Harmful if inhaled.

Ethylene Glycol, Monobutyl Ether Acetate
Inhalation may result in respiratory irritation.

Ingestion
May be harmful if swallowed.

Ethylene Glycol, Monobutyl Ether Acetate
Swallowing large amounts may cause digestive discomfort. Harmful if swallowed.

Potential health effects

Routes of exposure
Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate</td>
<td>112-07-2</td>
<td>&lt; 50</td>
</tr>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate</td>
<td>108-65-6</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>2-(2-ethoxyethoxy)ethyl Acetate</td>
<td>112-15-2</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

**Eye contact**
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

**Skin contact**
In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. Get medical attention, if needed.

**Inhalation**
Move person to fresh air immediately. If symptoms persist, get immediate medical attention.

**Ingestion**
Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

General advice

No additional information

5. Fire Fighting Measures

**Extinguishing media**
For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

**Protection of firefighters**

- **Protective equipment and precautions for firefighters**
  Move containers from fire area if you can do it without risk. Avoid runoff into storm sewers and ditches which lead to waterways.

- **Special protective equipment for fire-fighters**
  Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

**Personal precautions**
Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

**Environmental precautions**
Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up**
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Other information**
Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

**Handling**
Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.

**Storage**
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

8. Exposure Controls / Personal Protection

**ACGIH**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (108-94-1)</td>
<td>BEI</td>
<td>80.0000 mg/l</td>
</tr>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>------------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)</td>
<td>STEL</td>
<td>8.0000 mg/l</td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)</td>
<td>TWA</td>
<td>50.0000 ppm</td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (112-07-2)</td>
<td>TWA</td>
<td>20.0000 ppm</td>
</tr>
</tbody>
</table>

**U.S. - OSHA**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (108-94-1)</td>
<td>PEL</td>
<td>50.0000 ppm</td>
</tr>
<tr>
<td>Cyclohexanone (108-94-1)</td>
<td>TWA</td>
<td>200.0000 mg/m3</td>
</tr>
</tbody>
</table>

**U.S. - Tennessee**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Cyclohexanone (108-94-1)</td>
<td>TWA</td>
<td>25.0000 ppm</td>
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<tr>
<td>Cyclohexanone (108-94-1)</td>
<td>TWA</td>
<td>100.0000 mg/m3</td>
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**U.S. - WEEL**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate (108-65-6)</td>
<td>TWA</td>
<td>50.0000 ppm</td>
</tr>
</tbody>
</table>

**Exposure guidelines**

**US. ACGIH Threshold Limit Values**

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**Personal protective equipment**

- **Eye / face protection**
  - Wear safety glasses; chemical goggles (if splashing is possible).
  - Eye wash fountain and emergency showers are recommended.

- **Skin protection**
  - Wear appropriate chemical resistant clothing.
  - Wear appropriate chemical resistant gloves.

- **Respiratory protection**
  - Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

- **General hygiene considerations**
  - Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.
  - When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
  - Launder contaminated clothing before reuse.

**9. Physical & Chemical Properties**

| Appearance | Not available. |
| Color      | Black.         |
| Odor       | Solvent.       |
| Odor threshold | Not available. |
| Physical state | Liquid.      |
| Form       | Liquid.        |
| pH         | Not available. |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Flash point | 154.4 °F (68 °C) Closed Cup |
| Evaporation rate | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
Flammability limits in air, lower, % by volume: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Specific gravity: Not available.
Relative density: Not available.
Solubility (water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
VOC: 770 g/L

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

10. Chemical Stability & Reactivity Information
Chemical stability: Stable at normal conditions.
Conditions to avoid: Heat, flames and sparks.
Possibility of hazardous reactions: None known.

11. Toxicological Information
Carcinogenicity
ACGIH Carcinogens
- Cyclohexanone (CAS 108-94-1): A3 Confirmed animal carcinogen with unknown relevance to humans.
- Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2): A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity
- Cyclohexanone (CAS 108-94-1): 3 Not classifiable as to carcinogenicity to humans.

IARC Monographs: Evidence of carcinogenicity in humans
- Cyclohexanone (CAS 108-94-1): No data.

Serious eye damage/eye irritation: Not available.

Sensitization
US. ACGIH Threshold Limit Values
- Cyclohexanone (CAS 108-94-1): Can be absorbed through the skin.

Symptoms and target organs
Target Organs (NIOSH)

Further information: Complete toxicity data are not available for this specific formulation.

12. Ecological Information
Ecotoxicity: No information available.
Aquatic toxicity: No information available.
Persistence and degradability: Not available.
13. Disposal Considerations

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: NA1993
- Proper shipping name: Combustible liquid n.o.s. (2-methoxy-1-methyl ethyl acetate, cyclohexanone) - Not regulated in quantities less than 119 gallons
- Hazard class: Combustible
- Packing group: III
- Additional information:
  - ERG number: 128

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

15. Regulatory Information

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

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: Yes

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 - New Jersey RTK - Substances: Listed substance
US. Massachusetts RTK - Substance List
Cyclohexanone (CAS 108-94-1)

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Cyclohexanone (CAS 108-94-1) Listed.

US. Rhode Island RTK
Cyclohexanone (CAS 108-94-1)

Regulatory information
Notified according to EU Regulations.

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) = < 770 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: 2
Flammability: 2
Physical hazard: 1
Personal protection: B

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
13-Mar-2013

This data sheet contains changes from the previous version in section(s):
Product and Company Identification: Alternate Trade Names
Composition / Information on Ingredients: Ingredients
15. Regulatory Information: Other information

Manufacturer information
Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California  94304-1112 US
Product Information 1-800-925-0563
Explanation of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</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>