1. Product and Company Identification

<table>
<thead>
<tr>
<th>Material name</th>
<th>CN910 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version #</td>
<td>03</td>
</tr>
<tr>
<td>Issue date</td>
<td>24-Apr-2010</td>
</tr>
<tr>
<td>Revision date</td>
<td>22-Nov-2013</td>
</tr>
<tr>
<td>Product use</td>
<td>Inkjet printing.</td>
</tr>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Synonym(s)</td>
<td>HP Scitex GR100 Classic Cyan Ink</td>
</tr>
<tr>
<td>Company identification</td>
<td>Hewlett-Packard Company</td>
</tr>
<tr>
<td></td>
<td>3000 Hanover Street</td>
</tr>
<tr>
<td></td>
<td>Palo Alto, CA 94304-1185</td>
</tr>
<tr>
<td></td>
<td>United States</td>
</tr>
<tr>
<td></td>
<td>Telephone 650-857-5020</td>
</tr>
</tbody>
</table>

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 by inhalation and in contact with skin. Contact with skin and eyes may result in irritation. Inhalation may result in respiratory irritation.

Potential health effects

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Avoid contact with eyes. Contact with eyes may result in irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Avoid contact with skin. Harmful in contact with skin. Contact with skin may result in irritation and Harmful if absorbed through the skin.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Avoid breathing vapors or mists of this product. Harmful if inhaled. Inhalation may result in respiratory irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed. Swallowing large amounts may cause digestive discomfort. Harmful if swallowed.</td>
</tr>
</tbody>
</table>

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate</td>
<td>112-07-2</td>
<td>&lt;70</td>
</tr>
<tr>
<td>2-methoxy-1-methylethylacetate</td>
<td>108-65-6</td>
<td>&lt;20</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>&lt;7.5</td>
</tr>
<tr>
<td>Pigment Blue</td>
<td>Proprietary</td>
<td>&lt;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;5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

General advice
No information
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.

5. Fire Fighting Measures

**Extinguishing media**
Suitable extinguishing media: sand, carbon dioxide (CO2), and dry chemical.

**Protection of firefighters**
Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

**Fire fighting equipment/instructions**
Move containers from fire area if you can do it without risk.

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

**Occupational exposure limits**

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyyl acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>STEL</td>
<td>50 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>PEL</td>
<td>200 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 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>2-Butoxyethyl acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>TWA</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methoxy-1-methyl ethyl acetate (CAS 108-65-6)</td>
<td>TWA 50 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>TWA 100 mg/m³</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.

- **Physical state**
  - Not available.

- **Form**
  - Liquid.

- **Color**
  - Cyan

- **Odor**
  - Solvent.

- **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**
  - Not available.

- **VOC**
  - < 915 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.

- **Incompatible materials**
  - Not available.

- **Hazardous decomposition products**
  - Not available.
Possibility of hazardous reactions
None known.

11. Toxicological Information

Toxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate (CAS 112-07-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>1500 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2400 mg/kg</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>754 mg/kg</td>
</tr>
</tbody>
</table>

Carcinogenicity

ACGIH Carcinogens

- 2-BUTOXYETHYL ACETATE (EGBEA) (CAS 112-07-2) - A3 Confirmed animal carcinogen with unknown relevance to humans.
- CYCLOHEXANONE (CAS 108-94-1) - 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.
- Vinyl chloride-vinyl acetate copolymer (CAS Proprietary) - 3 Not classifiable as to carcinogenicity to humans.

Serious eye damage/eye irritation

Not available.

Further information

Complete toxicity data are not available for this specific formulation.

12. Ecological Information

Aquatic toxicity

No information available.

Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Ecotoxicity

No information available.

Persistence and degradability

Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

- Cyclohexanone - 0.81

Partition coefficient

- Cyclohexanone - 0.81

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

- Cyclohexanone (CAS 108-94-1) - U057

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-methylethyl acetate, cyclohexanone) - Not regulated in quantities less than 119 gallons
- **Hazard class**: Combustible
- **Packing group**: III

**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.

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

Not listed.

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

Not regulated.

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

Not regulated.

**CERCLA (Superfund) reportable quantity**

Cyclohexanone: 5000

**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

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**Other information**

VOC content (less water, less exempt compounds) = < 915 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

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

2-Butoxyethyl acetate (CAS 112-07-2) Listed.
Cyclohexanone (CAS 108-94-1) Listed.

**US. Massachusetts RTK - Substance List**

Cyclohexanone (CAS 108-94-1)

**US. Pennsylvania RTK - Hazardous Substances**

Cyclohexanone (CAS 108-94-1) Listed.

**US. Rhode Island RTK**

Cyclohexanone (CAS 108-94-1)
16. Other Information

**HMIS® ratings**

- Health: 2
- Flammability: 2
- Physical hazard: 1

**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.

**Other information**

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

**Issue date**

24-Apr-2010

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

- 5. Fire Fighting Measures: Protective equipment and precautions for firefighters
- 9. Physical & Chemical Properties: Other information
- 15. Regulatory Information: Other regulations
- 15. Regulatory Information: Other information

**Manufacturer information**

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

**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