1. Product and Company Identification

Material name: CN932 Series
Version #: 03
Issue date: 23-Apr-2010
Revision date: 22-Nov-2013
Product use: Inkjet printing

2. Hazards Identification

Potential health effects:
- Skin: Harmful if absorbed through the skin. Contact with skin may result in irritation and Harmful if absorbed through the skin.
- Inhalation: Harmful if inhaled. Inhalation may result in respiratory irritation.

3. Composition / Information on Ingredients

Hazardous components

<table>
<thead>
<tr>
<th>Substance</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;90</td>
</tr>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate</td>
<td>108-65-6</td>
<td>&lt;7.5</td>
</tr>
</tbody>
</table>

Non-hazardous components

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Molecular Weight Copolymer</td>
<td>Mixture</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Vinyl chloride-vinyl acetate copolymer</td>
<td>Proprietary</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Yellow Pigment</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 contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
- **Skin contact**: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists get medical attention. Remove and isolate contaminated clothing and shoes. Thoroughly wash (or discard) clothing and shoes before reuse.
- **Inhalation**: Move to fresh air. If symptoms persist, get medical attention.
- **Ingestion**: If swallowed, seek medical advice immediately and show this container or label.
- **Notes to physician**: Treat symptomatically.
5. Fire Fighting Measures

**Flammable properties**
None known.

**Extinguishing media**
- **Suitable extinguishing media**
  - CO2, water, dry chemical, or foam
- **Unsuitable extinguishing media**
  - Do not use a solid water stream as it may scatter and spread fire.

**Fire fighting equipment/instructions**
Firefighters should wear full protective clothing including self contained breathing apparatus.

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

6. Accidental Release Measures

**Personal precautions**
Ensure adequate ventilation.

**Methods for cleaning up**
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).

**Other information**
Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

**Handling**
Avoid breathing vapors or mists of this product. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Keep away from heat, sparks and open flame - No smoking. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage**
Store in accordance with local/regional/national/international regulation. Keep in a well-ventilated place. Keep container closed when not in use.

8. Exposure Controls / Personal Protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. - NIOSH</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN932 Series</td>
<td>REL</td>
<td>5 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>33 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. AIHA Workplace Environmental Exposure Level (WEEL) Guides</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

**Exposure guidelines**
None established.

**Engineering controls**
Use in a well ventilated area. Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

**Personal protective equipment**

| Eye / face protection | | |
|-----------------------|------------------|
| Avoid contact with eyes|

<table>
<thead>
<tr>
<th>Skin protection</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Use personal protective equipment to minimize exposure to skin and eye.</td>
<td></td>
</tr>
</tbody>
</table>
9. Physical & Chemical Properties

- **Appearance**: Liquid.
- **Physical state**: Not available.
- **Form**: Not available.
- **Color**: Yellow
- **Odor**: Not available.
- **pH**: Not available.
- **Vapor pressure**: Not determined.
- **Boiling point**: 325.4 °F (163 °C) Estimated
- **Melting point/Freezing point**: Not available.
- **Solubility (water)**: Not available.
- **Specific gravity**: Not available.
- **Flash point**: 159.80 °F (71.00 °C) Setaflash Closed Tester
- **VOC**: < 884 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**: No information available
- **Incompatible materials**: strong oxidizing agents. Strong acids and strong alkalis. oxidizing agents
- **Hazardous decomposition products**: None known.
- **Possibility of hazardous reactions**: Will not occur.

11. Toxicological Information

**Toxicological data**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>1500 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2400 mg/kg</td>
</tr>
<tr>
<td>Other</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.

- **IARC Monographs, Overall Evaluation of Carcinogenicity**
  - Vinyl chloride-vinyl acetate copolymer (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

**Serious eye damage/eye irritation**

- Not available.

12. Ecological Information

**Ecotoxicity**

- This product has not been tested for ecological effects.

**Persistence and degradability**

- Not available.

**Bioaccumulation / Accumulation**
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-methylethyl acetate) - 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**

*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))*
Not regulated.

*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**
None

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

*Hazard categories*
- Immediate Hazard - Yes
- 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) = < 884 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*
Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2) Listed.
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
23-Apr-2010

This data sheet contains changes from the previous version in section(s):
Composition / Information on Ingredients: Ingredients
9. Physical & Chemical Properties: Other information
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

<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>