SAFETY DATA SHEET

1. Identification

Product identifier
HP ElectoInk Calibration Tube Light Cyan for use with HP Indigo Digital Press 10000 Q4233A

Other means of identification
Not available.

Synonym(s)
Part Number Q4233A

Recommended use
HP product for use with HP Indigo Digital Presses 10000.

Recommended restrictions
None known.

Issue date
04-Jun-2014

Company identification
Hewlett-Packard Company
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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. Hazard(s) identification

Physical hazards
Not classified.

Health hazards
Not classified.

OSHA hazard(s)
Not classified.

Label elements

Hazard symbol
No symbol.

Signal word
Not available.

Hazard statement
Not available.

Precautionary statement
Prevention
Not available.

Response
Not available.

Storage
Not available.

Disposal
Not available.

Hazard(s) not otherwise classified (HNOC)
Not classified.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum hydrocarbon</td>
<td>90622-58-5</td>
<td>&lt;90</td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Proprietary</td>
<td>&lt;15</td>
<td></td>
</tr>
</tbody>
</table>

Non-hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigment Blue*</td>
<td>Proprietary*</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Composition comments
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).
4. First-aid measures

**Inhalation**
If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

**Skin contact**
Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

**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. Do not apply neutralizing agents.

**Ingestion**
Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.

**Most important symptoms/effects, acute and delayed**
Not available.

5. Fire-fighting measures

**Flash point**
Not available.

**Suitable extinguishing media**
Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
None known.

**Special protective equipment and precautions for firefighters**
Not available.

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Wear appropriate personal protective equipment.

**Methods and materials for containment and cleaning up**
Not available.

**Environmental precautions**
Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

7. Handling and storage

**Precautions for safe handling**
Avoid prolonged or repeated skin contact with this material. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

**Conditions for safe storage, including any incompatibilities**
Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>ACGIH Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret (CAS Proprietary)</td>
<td>STEL</td>
<td>143 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3 mg/m3</td>
</tr>
</tbody>
</table>

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**
Use in a well ventilated area.

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**
  Not available.

- **Skin protection**

  - **Hand protection**
    Not available.

  - **Other**
    Not available.

- **Respiratory protection**
  Not available.

- **Thermal hazards**
  Not available.
General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

**Appearance**
- **Physical state**: Paste
- **Color**: Light Cyan
- **Odor**: mild hydrocarbon-like
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: 370.4 °F (188 °C) (based on petroleum hydrocarbon)
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**: Not available.
- **Flammability limit - upper (%)**: Not available.
- **Explosive limit - lower (%)**: Not available.
- **Explosive limit - upper (%)**: Not available.

**Vapor pressure**: Not available.

**Solubility(ies)**: Not soluble in water

**Partition coefficient (n-octanol/water)**: Not available.

**Auto-ignition temperature**: Not available.

**Decomposition temperature**: Not available.

**Viscosity**: Not available.

**Other information**
- **Oxidizing properties**: Not applicable.
- **Specific gravity**: 0.805
- **VOC (Weight %)**: 635 g/L (5.30 lbs/gal.US)

10. Stability and reactivity

**Reactivity**: Not available.

**Chemical stability**: Stable under recommended storage conditions.

**Possibility of hazardous reactions**: Will not occur.

**Conditions to avoid**: Not available.

**Incompatible materials**: This product may react with strong oxidizing agents.

**Hazardous decomposition products**: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

**Symptoms related to the physical, chemical and toxicological characteristics**: Not available.

**Information on toxicological effects**
- **Acute toxicity**: Not available.
- **Skin corrosion/irritation**: Not available.
- **Serious eye damage/eye irritation**: Not available.
- **Respiratory sensitization**: Not available.
Skin sensitization  
Germ cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
Specific target organ toxicity - single exposure  
Specific target organ toxicity - repeated exposure  
Aspiration hazard  
Further information  

12. Ecological information  

Aquatic toxicity  
Ecotoxicity  
Persistence and degradability  
Bioaccumulative potential  
Mobility in soil  
Other adverse effects  

13. Disposal considerations  

Disposal instructions  
Local disposal regulations  
Hazardous waste code  
Waste from residues / unused products  
Contaminated packaging  

14. Transport information  

DOT  
IATA  
IMDG  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  

15. Regulatory information  

US federal regulations  

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)  
CERCLA Hazardous Substance List (40 CFR 302.4)  

Further information  
The ink formulation has not been tested.
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 federal regulations**

- **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
  - Not regulated.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  - Not regulated.

- **Safe Drinking Water Act (SDWA)**
  - 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.

- **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.

- **Food and Drug Administration (FDA)**
  - Not regulated.

**US 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.

- **US. California Proposition 65**
  - **US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**
    - Not listed.

**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.

16. Other information, including date of preparation or last revision

**Issue date**
- 04-Jun-2014

**Revision date**
- 07-Jul-2014

**Version #**
- 02

**Further information**
- Not available.

**Disclaimer**

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**Manufacturer information**

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The Netherlands
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(Toll-free within the US) 1-800-457-4209
### Explanation of Abbreviations

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