1. Product and Company Identification

Material name: CN857Series
Use of the preparation: Inkjet printing
Version #: 03
Revision date: 13-Oct-2009
Synonym(s): HP FB210 Spcl Flex Black Scitex Ink
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

Date prepared: Oct 12, 2009
MSDS number: 520299

2. Hazards Identification

Acute health effects

Eye contact: Irritating to eyes.
Ingestion: Harmful if swallowed.

Potential health effects

Carcinogenicity: Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-phenoxyethyl Acrylate</td>
<td>48145-04-6</td>
<td>&lt; 40</td>
</tr>
<tr>
<td>vinyl caprolactam (VCAP)</td>
<td>Mixture</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Dipentaerythritol pentaacrylate esters</td>
<td>60506-81-2</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Diphenyl (2,4,6-trimethylbenzoyl) phosphate</td>
<td>75980-60-8</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Neopentylglycol Propoxylate Diacrylate</td>
<td>84170-74-1</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Black Pigment</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Propiophenone derivative</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

First aid procedures

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.

Skin contact: Wash affected area 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

- **Flash point and method**: > 200 °F (> 93.3 °C)
- **Flammable properties**: None known.
- **Extinguishing media**
  - **Suitable extinguishing media**: Dry powder. Carbon dioxide (CO2). Water may be ineffective.
  - **Unsuitable extinguishing media**: Water.
- **Unusual fire and explosion hazard**: None known.
- **Protection of firefighters**
  - **Protective equipment and precautions for firefighters**: Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental Release Measures

- **Personal precautions**: Wear appropriate personal protective equipment.
- **Environmental precautions**: Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
- **Other information**: Slowly vacuum or sweep the material into a bag or other sealed container. Soak up with inert absorbent material.

7. Handling and Storage

- **Handling**: Avoid contact with skin, eyes and clothing.
- **Storage**: Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.

8. Exposure Controls / Personal Protection

- **Occupational exposure limits**
  - **ACGIH**
    - **Components**: Black Pigment (Proprietary)
    - **Type**: TWA
    - **Value**: 3.5 mg/m3
  - **U.S. - OSHA**
    - **Components**: Black Pigment (Proprietary)
    - **Type**: PEL
    - **Value**: 3.5 mg/m3
    - **Type**: TWA
    - **Value**: 3.5 mg/m3
- **Exposure guidelines**: Exposure limits have not been established for this product.
- **Engineering controls**: Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.
- **Personal protective equipment**
  - **General hygene considerations**: Handle in accordance with good industrial hygiene and safety practice. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical & Chemical Properties

- **Appearance**: Liquid.
- **Odor**: Characteristic.
- **Odor threshold**: Not available.
- **Physical state**: Liquid.
- **pH**: Not applicable.
### Material Safety Data Sheet

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °F (&gt; 93.3 °C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt; 95 g/L</td>
</tr>
</tbody>
</table>

#### 10. Chemical Stability & Reactivity Information

- **Chemical stability**: Stable under recommended storage conditions.
- **Conditions to avoid**: Exposure to sunlight.
- **Incompatible materials**: oxidizing agents, alkaline metals
- **Hazardous decomposition products**: Nitrogen oxides (NOx). Carbon monoxide, hydrocarbons
- **Possibility of hazardous reactions**: Hazardous polymerization can occur with decreased inhibitor content.

#### 11. Toxicological Information

- **Toxicological information**: Not available.
- **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.

  **IARC Monographs**: Evidence of carcinogenicity in humans
  - Black Pigment (Proprietary): Inadequate data.
  - US ACGIH Threshold Limit Values: A4 carcinogen
  - Black Pigment (Proprietary): Group A4 Not classifiable as a human carcinogen.

- **Symptoms and target organs**
  - **Target Organs (NIOSH)**
    - Black Pigment (Proprietary): Eyes
    - Black Pigment (Proprietary): Respiratory system

#### 12. Ecological Information

- **Ecotoxicity**: Not 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

Department of Transportation (DOT) Requirements
Not regulated as hazardous goods.

IATA
Not regulated as hazardous goods.

General
Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.

15. Regulatory Information

US federal regulations
All ingredients are listed or exempt

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

International regulations
Notified according to EU Regulations.

State regulations
US - Pennsylvania RTK - Hazardous Substances: Listed substance
Black Pigment (Proprietary) Listed.

16. Other Information

HMIS® ratings
Health: 3
Flammability: 1
Physical hazard: 2

NFPA ratings
Health: 3
Flammability: 1
Instability: 2

Issue date
Oct 12 2009 2:43PM

Revision
3

Replaces sheet dated
Oct 3 2009 12:46PM

Manufacturer information
HP Scitex
8b Hatzoran Street
New Industrial Area
P.O.Box 8743
Netanya 42505 IL
(Direct) +972 (9) 892-4628

Other information
This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
Material Safety Data Sheet

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.

MSDS sections updated
14. Transport Information: General

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>