1. Product and Company Identification

Material name: HP E7FSKC Cyan Developer

Use of the preparation: This product is a cyan developer preparation that is used in HP 9850mfp series digital copiers.

Version #: 04

Revision date: 05-May-2009

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: hpcustomerinquiries@hp.com

Date prepared: May 05, 2009

MSDS number: 428268

2. Hazards Identification

Acute health effects

Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient slight irritation

Inhalation: Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.

Ingestion: Low acute toxicity. Unlikely to cause irritation under normal use conditions.

Potential health effects

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

Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

Chronic health effects

Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Carcinogenicity

None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

Other information: This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

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>Toner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrene acrylate copolymer</td>
<td>Trade Secret</td>
<td>&lt; 90</td>
</tr>
<tr>
<td>Wax</td>
<td>Trade Secret</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Organic pigment</td>
<td>Trade Secret</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Strontium titanate</td>
<td>12060-59-2</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Carrier
- Iron oxide: 1317-61-9, < 50
- Magnesium Oxide Fume: 1309-48-4, < 40
- Acrylic resin: Trade Secret, < 10
- Manganese oxide (MnO): 1344-43-0, < 10

4. First Aid Measures

First aid procedures
- **Eye contact**: Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, consult a physician.
- **Skin contact**: Wash affected areas with soap and water. If irritation persists, consult a physician.
- **Inhalation**: Move person to fresh air immediately. If irritation persists, consult a physician.
- **Ingestion**: Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

5. Fire Fighting Measures

Flash point and method: Not applicable
Hazardous combustion products: Carbon monoxide and carbon dioxide.
Flammable properties: Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Extinguishing media
- **Suitable extinguishing media**: CO2, water, or dry chemical
- **Unsuitable extinguishing media**: None known.
Unusual fire and explosion hazard: Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Protection of firefighters
- **Protective equipment and precautions for firefighters**: If fire occurs in the printer, treat as an electrical fire.
- **Special firefighting procedures**: None established.

6. Accidental Release Measures

Personal precautions: Minimize dust generation and accumulation.
Environmental precautions: Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Other information: Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling: Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.
Storage: Keep out of the reach of children. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.
8. Exposure Controls / Personal Protection

Exposure guidelines

USA OSHA (TWA/PEL): 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Fraction)
ACGIH (TWA/TLV): 10 mg/m³ (Inhalable Particulate), 3 mg/m³ (Respirable Particulate)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m³)%SiO₂, ACGIH (TWA/TLV): 10 mg/m³

Personal protective equipment

General
No personal respiratory protective equipment required under normal conditions of use.

9. Physical & Chemical Properties

Appearance
Fine powder

Color
Cyan

Odor
Slight plastic odor

Odor threshold
Not available.

Physical state
Not available.

Form
solid

pH
Not applicable

Melting point
Not available.

Freezing point
Not available.

Boiling point
Not available.

Flash point
Not applicable

Evaporation rate
Not applicable

Carrier
Not available.

Toner
Not available.

Flammability
Not available.

Flammability limits in air, upper, % by volume
Not available.

Flammability limits in air, lower, % by volume
Not flammable

Vapor pressure
Not applicable

Vapor density
Not applicable

Specific gravity
5 (H₂O = 1)

Carrier
Not available.

Toner
Not available.

Relative density
Not available.

Solubility (water)
Negligible in water. Partially soluble in toluene and xylene.

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

Auto-ignition temperature
Not applicable

Decomposition temperature
Not available.

Carrier
Not available.

Toner
Not available.

Softening point
212 - 302 °F (100 - 150 °C)
10. Chemical Stability & Reactivity Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Stable under normal storage conditions.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizers</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Carbon monoxide and carbon dioxide.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

11. Toxicological Information

<table>
<thead>
<tr>
<th>Analysis</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component analysis - LD50</td>
<td>Amorphous silica: LD50: oral/rat: 3160 mg/kg, not harmful. Ames test negative.</td>
</tr>
<tr>
<td>Oral toxicity</td>
<td>LD50/oral/rat &gt;2000 mg/kg; (OECD 401); Not harmful. Not classified for acute oral toxicity</td>
</tr>
<tr>
<td></td>
<td>according to EU Directive 67/548/EEC and 1999/45/EC.</td>
</tr>
<tr>
<td>Inhalation toxicity</td>
<td>LC50: inh/rat 5.17 mg/l/4 hrs., (OECD 403).</td>
</tr>
<tr>
<td></td>
<td>Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive</td>
</tr>
<tr>
<td></td>
<td>67/548/EEC and as amended.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS</td>
</tr>
<tr>
<td></td>
<td>(US).</td>
</tr>
<tr>
<td>Chronic toxicity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA),</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65,</td>
</tr>
<tr>
<td></td>
<td>and DFG (Germany).</td>
</tr>
</tbody>
</table>

12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

<table>
<thead>
<tr>
<th>Disposal instructions</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not shred toner cartridge,</td>
<td>Unless dust-explosion prevention measures are taken.</td>
</tr>
<tr>
<td>unless dust-explosion prevention</td>
<td>Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal,</td>
</tr>
<tr>
<td>measures are taken.</td>
<td>state, and local regulations.</td>
</tr>
<tr>
<td>HP’s Planet Partners (trademark)</td>
<td>supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet</td>
</tr>
<tr>
<td></td>
<td>Supplies. For more information and to determine if this service is available in your location,</td>
</tr>
<tr>
<td></td>
<td>please visit <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a>.</td>
</tr>
</tbody>
</table>

14. Transport Information

| IATA                               | Not regulated as dangerous goods.                                                                  |
| General                            | Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.                         |

15. Regulatory Information

| US federal regulations              | US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders      |
|                                    | under TSCA.                                                                                         |
| CERCLA (Superfund) reportable       | None                                                                                               |
| quantity                           |                                                                                                     |
### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories
- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

#### Section 302 extremely hazardous substance
- No

#### Section 311 hazardous chemical
- No

### International 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.

### 16. Other Information

#### HMIS® ratings
- Health: 1
- Flammability: 1
- Physical hazard: 0

#### NFPA ratings
- Health: 1
- Flammability: 1
- Instability: 0

#### Issue date
- May 5 2009 2:47PM

#### Revision
- 4

#### Replaces sheet dated
- May 5 2009 4:39AM

#### Manufacturer information
Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, ID 83714 USA  
(Direct) 1-503-494-7199  
(Toll-free within the US) 1-800-457-4209

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

#### 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.
## Explanation of abbreviations

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