1. Product and Company Identification

**Identification of the preparation**
HP Color LaserJet C4193A Magenta Print Cartridge

**Product use**
This product is a magenta toner preparation that is used in HP Color LaserJet 4500/4550 series printers.

**Version #**
06

**Revision date**
20-Mar-2012

**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

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. Ingestion is a minor route of entry for intended use of this product.

**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**
Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

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

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene acrylate copolymer</td>
<td>Trade Secret</td>
<td>&lt; 80</td>
</tr>
<tr>
<td>Wax</td>
<td>Trade Secret</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Pigment</td>
<td>Trade Secret</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Polyester resin</td>
<td>Trade Secret</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
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, consult a physician.

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

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

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.

Protection of firefighters
Protective equipment and precautions for firefighters
If fire occurs in the printer, treat as an electrical fire.

Specific methods
None established.

Hazardous combustion products
Carbon monoxide and carbon dioxide.

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. Store away from strong oxidizers. Keep tightly closed and dry.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH
Components
Titanium dioxide (13463-67-7)

Type
TWA

Value
10.0000 mg/m3

U.S. - OSHA
Components
Titanium dioxide (13463-67-7)

Type
PEL

Value
15.0000 mg/m3

Form
Total dust.

U.S. - Tennessee
Components
Titanium dioxide (13463-67-7)

Type
TWA

Value
10.0000 mg/m3

Form
Total dust.
9. Physical & Chemical Properties

**Appearance**  
Fine powder

**Color**  
Magenta

**Odor**  
Slight plastic odor

**Odor threshold**  
Not available.

**Physical state**  
Solid

**Form**  
solid

**pH**  
Not applicable

**Melting point**  
Not available.

**Freezing point**  
Not available.

**Boiling point**  
Not applicable

**Flash point**  
Not applicable

**Evaporation rate**  
Not applicable

**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 available.

**Specific gravity**  
1 - 1.2 (H2O = 1)

**Relative density**  
Not available.

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

**Auto-ignition temperature**  
Not applicable

**Decomposition temperature**  
Not available.

**Softening point**  
212 - 302 °F (100 - 150 °C)

**Viscosity**  
Not applicable

**Percent volatile**  
0 % estimated

**VOC**  
Not available.

**Other information**  
Decomposition temperature: > 200° C

10. Chemical Stability & Reactivity Information

**Chemical stability**  
Stable under normal storage conditions.

**Incompatible materials**  
Strong oxidizers

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

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

11. Toxicological Information

**Oral toxicity**  
Carcinogenicity
Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7)  
2B Possibly carcinogenic to humans.

**Inhalation toxicity**  
LC50: inh/rat > 5 mg/l/4 hrs., (OECD 403).

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

### Serious eye damage/eye irritation

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.

### Chronic toxicity

No information available.

### Sensitization

Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).

### Mutagenicity

Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

### Reproductivity

Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).

### Further information

Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

### 12. Ecological Information

**Ecotoxicity**  
LL50: > 1000 mg/l, Fish, 96.00 Hours

**Persistence and degradability**  
Not available.

### 13. Disposal Considerations

**Disposal instructions**  
Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

### 14. Transport Information

**Further information**  
Not a dangerous good under 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 quantity**  
None

**Occupational Safety and Health Administration (OSHA)**

- **29 CFR 1910.1200 hazardous chemical**  
  No

**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
16. Other Information

Other information

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

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

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.

Issue date

20-Mar-2012

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

- Product and Company Identification: Physical States
- Hazards Identification: Carcinogenicity
- Composition / Information on Ingredients: Ingredients
- 11. Toxicological Information: Carcinogenicity
- 11. Toxicological Information: Further information
- Ecological Information: Ecotoxicity
- 14. Transport Information: Further information

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

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