1. Product and Company Identification

Identification of the preparation
HP Color LaserJet C4194A Yellow Print Cartridge

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

Version #
07

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.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWA</td>
<td>10.0000 mg/m3</td>
</tr>
</tbody>
</table>

U.S. - OSHA

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>PEL</td>
<td>15.0000 mg/m3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

U.S. - Tennessee

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWA</td>
<td>10.0000 mg/m3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>
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)

Engineering controls
Use in a well ventilated area.

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

9. Physical & Chemical Properties

- **Appearance**: Fine powder
- **Color**: Yellow
- **Odor**: Slight plastic odor
- **Odor threshold**: Not available.
- **Physical state**: Solid
- **Form**: Solid
- **pH**: Not applicable
- **Melting point**: No information 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 applicable.
- **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

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
9. Physical & Chemical Properties: Color
11. Toxicological Information: Carcinogenicity
11. Toxicological Information: Further information
Ecological Information: Ecotoxicity
14. Transport Information: Further information

Manufacturer information
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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
REL   Recommended
REC   Recommended
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