Material Safety Data Sheet

1.0 Product and Company Identification

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

Company Identification: Hewlett-Packard Company
11311 Chinden Boulevard
Boise, Idaho 83714
United States

Emergency telephone number: 1-800-457-4209 (USA and Canada)
Intl: +1-503-494-7199 (all other areas)
Singapore: +65-6436-7595

Hewlett-Packard Health Effects Line: 1-208-323-2551 (USA and Canada)
Intl: +1-208-323-2551 (all other areas)

Local Contact Information: Ireland
Liffey Park Technology Park
Barnhall Road Leixlip, Co.
Kildare, Ireland
Phone: 01 6150000

United Kingdom
Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Phone: 1344 36-0000

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>US NFPA/HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Instability/Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td>N/A</td>
</tr>
</tbody>
</table>

2.0 Composition/Information on Ingredients

This product is a magenta toner preparation that is used in Hewlett-Packard Color LaserJet 4500 and 4550 series printers.

<table>
<thead>
<tr>
<th>Component/Substance</th>
<th>CAS Number</th>
<th>EU Number</th>
<th>% by Weight</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene Acrylate</td>
<td>-</td>
<td>-</td>
<td>60 - 80</td>
<td>-</td>
</tr>
<tr>
<td>Copolymer</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wax</td>
<td>-</td>
<td>-</td>
<td>5 - 15</td>
<td>-</td>
</tr>
<tr>
<td>Polyester Resin</td>
<td>-</td>
<td>-</td>
<td>5 - 10</td>
<td>-</td>
</tr>
<tr>
<td>Pigment</td>
<td>-</td>
<td>-</td>
<td>5 - 10</td>
<td>-</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>&lt; 0.5</td>
<td>-</td>
</tr>
</tbody>
</table>
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3.0 Hazard Identification

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

Routes of Exposure  Inhalation, ingestion, skin and eyes.

Acute Health Hazards

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

Ingestion:  Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Skin:  Unlikely to cause skin irritation.

Eyes:  May cause transient slight irritation.

Chronic Health Hazards  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  Refer to section 11.

4.0 First Aid Measures

Inhalation:  Move person to fresh air immediately. If symptoms occur, consult a physician.

Ingestion:  Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

Skin:  Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

Eyes:  Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

5.0 Fire Fighting Measures

Extinguishing media  CO₂, water, dry chemical

Unsuitable Extinguishing Media  None known

Special Firefighting Procedures  None

Unusual fire and explosion hazards  Toner material, like most organic material in powder form, is capable of creating a dust explosion.

Auto-ignition temperature  No data available

Flashpoint (method)  Not applicable

Hazardous Combustion Products  Carbon monoxide, carbon dioxide, smoke.
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6.0 Accidental release measures

Spill or leak procedures
Avoid breathing dust. Minimize the release of particles. Slowly 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 waste toner in accordance with local requirements.

Environmental precautions
Do not discharge into drains (See also section 13 Disposal Considerations).

7.0 Handling and Storage

Advise on safe handling and protection against fire
Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advise on storage compatibility
Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure control/ personal protection

Exposure Limit Values
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)

TRGS 900 (Luftgrenzwert): 10 mg/m³ (Einatembare Partikel)
3 mg/m³ (Alveolengängige Fraktion)

Exposure Controls
Respiratory protection
Not required under intended use

Ventilation
Good general ventilation should be sufficient under intended use

Protective gloves
Not required under intended use

Eye protection
Not required under intended use

Other protective equipment
Not required under intended use

9.0 Physical and chemical properties

pH
Not applicable

Boiling point
Not applicable

Flash point
Not applicable

Melting point
100 - 150°C (Softening Point)

Flammability
Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC and as amended (Annex V) A.10)
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Explosive properties
Toner material, like most organic material in powder form, is capable of creating a dust explosion

Oxidizing properties
No data available

Vapor Pressure
Not applicable

Specific gravity (H₂O=1)
1.0 - 1.2

Solubility in water
Negligible

Solubility in organic solvents
Partially soluble in toluene and xylene

Partition coefficient
Not applicable

Viscosity
Not applicable

Vapor density
Not applicable

Evaporation rate
Not applicable

Physical state
Fine powder

Color
Magenta

Odor
Slight plastic odor

Other
None known

10.0 Stability and reactivity

Stability
Stable under normal storage conditions

Incompatibilities
Strong oxidizers

Hazardous decomposition products
Carbon monoxide, carbon dioxide, smoke.

Hazardous polymerization
Will not occur

11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

Acute Toxicity:

Inhalation: LC₅₀: inh-rat -> 5mg/L/4 hrs. (data from similar toner), not harmful.

Ingestion: LD₅₀: orl-rat > 2000 mg/kg (data from similar toner), not harmful.

Eye Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended (data from similar toner).

Skin Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended (data from similar toner).

Chronic Toxicity:
No data available


Mutagenicity: Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium, data from similar toner)

Carcinogenicity: Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California)
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Reproductive Toxicity: Titanium Dioxide: DFG pregnancy risk group C (no known risk of damage to embryo or fetus when MAK and BAT values are observed). Not classified as toxic according to Annex 1 of EU Directive 67/548/EEC and as amended or California Prop. 65.

Other: Sub-Acute Toxicity (Rat) - 90 day inhalation test, No Observable Effect Level (NOEL): 16 mg/m 3. Expected air concentration levels under printing conditions are <0.01mg/m3.

12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 Disposal considerations

Do not put toner or print cartridge into fire; heated toner may cause severe burns. Do not shred print 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.

14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

<table>
<thead>
<tr>
<th>UN Number</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>None</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Special Precautions</td>
<td>None</td>
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</tbody>
</table>

15.0 Regulatory information

<table>
<thead>
<tr>
<th>US EPA TSCA Inventory</th>
<th>All chemical substances in this product comply with all rules or orders under TSCA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>US EPA TSCA 12(b)</td>
<td>Contains p-Xylene - [CAS No. 106-42-3]</td>
</tr>
<tr>
<td>US California Proposition 65</td>
<td>None</td>
</tr>
<tr>
<td>EU Notification</td>
<td>All components in this product are compliant with EU Chemical Inventory regulations.</td>
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<tr>
<td>EU R&amp;S Phrase Information</td>
<td>No European Risk Phrases (labeling data)</td>
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<tr>
<td>Dangerous Components</td>
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<tr>
<td>(CAS No.) wt%</td>
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<tr>
<td>USA Labeling</td>
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<tr>
<td>Symbol</td>
<td>Not required</td>
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<tr>
<td>Hazard Warning</td>
<td>Not required</td>
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<tr>
<td>Safety Advice</td>
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<tr>
<td>Hazardous Component(s)</td>
<td>None</td>
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</tbody>
</table>

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16.0 Other information

Date Prepared: July 1, 2004

HP-DMS Document Control

Number: This document replaces all prior versions of the MSDS

Revision Information: This MSDS was prepared in compliance with EU

EU Information: Directive 91/155/EEC as amended by 2001/58/EC and


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the time of preparation of this MSDS and is believed to be accurate. It should not be

construed as guaranteeing specific properties of the product as described or its

suitability for a particular application.