Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the preparation

HP LaserJet Print Cartridge
C4193A

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

Emergency telephone number

I-800-457-4209 (USA and Canada)
Intl: +1-503-494-7199 (all other areas)
Singapore: +001-800-332-13321

Hewlett-Packard Health Effects Line

I-208-323-2551 (USA and Canada)
Intl: +I-208-323-2551 (all other areas)

General information telephone number

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 1 HN
Phone: 1344 36-0060

Local Contact Information

Local Contact Information

Hazard Rating | US NFPA/HMIS

| Health | 1 |
| Flammability | 1 |
| Instability/Reactivity | 0 |
| Special | N/A |

2.0 Composition/Information on Ingredients

This product is a magenta toner preparation that is used in Hewlett-Packard LaserJet 4500 and 4550 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 Copolymer</td>
<td>-</td>
<td>-</td>
<td>60 - 80</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

The preparation is not classified according to EU Directive 1999/45/ECI

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: Ingestion is not applicable route of entry for intended use.
Skin: Unlikely to cause skin irritation
Eyes: May cause eye 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: Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.
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  Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide
6.0 Accidental release measures

Spill or leak procedures Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. 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 (Alveolengangige 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 (Annex V)

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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: Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide

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 -> 5 mg/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 (data from similar toner).

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

Chronic Toxicity:


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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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

Product / unused product / contaminated packaging (for Germany only)
Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

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>
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<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>
</tr>
</tbody>
</table>

15.0 Regulatory information

US EPA TSCA Inventory All ingredients are listed on TSCA inventory
US EPA TSCA 12(b) None
US California Proposition 65 None
EU Notification All components in this product are compliant with EU Chemical Inventory regulations.
EU R&S Phrase Information No European Risk Phrases (labeling data)
Dangerous Components None
(CAS No.) wt%  
USA Labeling 
Symbol Not required
Hazard Warning Not required
Safety Advice Not required
Hazardous Component(s) None
16.0  Other information

Date Prepared: August 1, 2002
HP-DIMS Document Control 090000e78022da75
Number:
Revision Information: This document replaces all prior versions of the MSDS
EU Information: This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200)

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.