Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the Preparation
HP LaserJet Print Cartridge C4096A

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

Emergency Telephone Number Hewlett-Packard Health Effects Line
1-800-457-4209 (USA and Canada)
503-494-7199 (USA direct)
Singapore: +001-800-332-13321

General Information Telephone Number
208-323-2551 (USA direct)

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 toner preparation that is used in Hewlett-Packard LaserJet 2100 and 2200 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 Copolymer</td>
<td>-</td>
<td>-</td>
<td>40 - 50</td>
<td>-</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>40 - 50</td>
<td>-</td>
</tr>
</tbody>
</table>

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.
3.1 Routes of Exposure  Inhalation, Ingestion, skin and eyes.

3.2 Acute Health Hazards

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

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

Skin: Unlikely to cause skin irritation.

Eyes: May cause transient slight irritation.

3.3 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.

3.4 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 immediately.

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

Eyes: Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 5 minutes or until particles are removed. 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  Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

Auto-ignition temperature  Not available

Flashpoint (method)  Not applicable

Hazardous Combustion Products  CO₂, CO
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6.0 Accidental release measures

6.1 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 tight. Dispose of waste toner in accordance with local requirements.

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

7.0 Handling and Storage

Advice 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. Use with adequate ventilation.

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

8.0 Exposure control/ personal protection

8.1 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)

8.2 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>100 - 150°C (Softening Point)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable solid (according to test methods of EU Directive 92/69/EEC, A10 Flammability (Solids))</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Toner material, like most organic material in powder form, is capable of creating a dust explosion.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific gravity (H₂O=1)</td>
<td>1.4 - 1.8</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Solubility in organic solvents</td>
<td>Partially soluble in toluene and xylene</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Physical state</td>
<td>Fine powder</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight plastic odor</td>
</tr>
<tr>
<td>Other</td>
<td>Decomposition temperature: &gt;200°C</td>
</tr>
</tbody>
</table>

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.

**Inhalation:** LC₅₀: inh-rat > 5mg/L/4 hrs., not harmful.

**Ingestion:** LD₅₀: orl-rat > 2000 mg/kg, not harmful.

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

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

**Chronic Toxicity:** No data available.

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

**Carcinogenicity:** Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).

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

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

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 regulation.

14.0 Transportation information

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

<table>
<thead>
<tr>
<th>UN Number</th>
<th>Not applicable</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>
</tr>
</tbody>
</table>

15.0 Regulatory information

- **US EPA TSCA Inventory**: All chemical substances in this product comply with all rules or orders under TSCA.
- **US EPA TSCA 12(b)**: Contains p-Xylene - [CAS No. 106-42-3]
- **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 (CAS No.) wt%**: None
- **USA Labeling**: Not required
  - **Symbol**: Not required
  - **Hazard Warning**: Not required
  - **Safety Advice**: None
  - **Hazardous Component(s)**: None

16.0 Other information

Date Prepared: July 1, 2004

HP-DMS Document Control 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 product as described or its suitability for a particular application.