1.0  Product and Company Identification

Identification of the Preparation          HP LaserJet Print Cartridge
                                          Q1338A

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 4200 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>Polyester Resin</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>
<tr>
<td>Amorphous silica</td>
<td>-</td>
<td>-</td>
<td>1 - 2</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.
Material Safety Data Sheet

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 toner dust.

Ingestion: Ingestion is not applicable 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.

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

Eyes: Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 5 minutes. If symptoms occur, 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 CO, CO₂
### 6.0 Accidental release measures

#### 6.1 Spill or leak procedures
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 explosion-proof. 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.

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

#### 8.1 Exposure Limit Values

<table>
<thead>
<tr>
<th>Standard</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USA OSHA (TWA/PEL):</strong></td>
<td>15 mg/m³ (Total Dust)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ (Respirable Fraction)</td>
</tr>
<tr>
<td><strong>ACGIH (TWA/TLV):</strong></td>
<td>10 mg/m³ (Inhalable Particulate)</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ (Respirable Particulate)</td>
</tr>
<tr>
<td><strong>TRGS 900 (Luftgrenzwert):</strong></td>
<td>10 mg/m³ (Einatembare Partikel)</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ (Alveolengängige Fraktion)</td>
</tr>
<tr>
<td><strong>Amorphous Silica:</strong></td>
<td>USA OSHA (TWA/PEL) - 20 mppcf, 80(mg/m³)/%SiO₂ ACGIH (TWA/TLV) - 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>DFG (MAK) - 4 mg/m³ (Respirable Fraction)</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure Controls

<table>
<thead>
<tr>
<th>Protection</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory protection</td>
<td>Not required under intended use.</td>
</tr>
<tr>
<td>Ventilation</td>
<td>Good general ventilation should be sufficient under intended use.</td>
</tr>
<tr>
<td>Protective gloves</td>
<td>Not required under intended use.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Not required under intended use.</td>
</tr>
<tr>
<td>Other protective equipment</td>
<td>Not required under intended use.</td>
</tr>
</tbody>
</table>

### 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>
</tbody>
</table>
Material Safety Data Sheet

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)
1.4 - 1.8

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
Black

Odor
Slight plastic odor

Other
Decomposition temperature: > 200 °C

10.0 Stability and reactivity

Stability
Stable under normal storage conditions

Incompatibilities
Strong oxidizers

Hazardous decomposition products
CO, CO₂

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:
Not available

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.

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)

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, and DFG (Germany).
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>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>
</tr>
</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>
</tr>
<tr>
<td>EU R&amp;S Phrase Information</td>
<td>No European Risk Phrases (labeling data)</td>
</tr>
<tr>
<td>Dangerous Components (CAS No.) wt%</td>
<td>None</td>
</tr>
</tbody>
</table>

USA Labeling

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Not required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Warning</td>
<td>Not required</td>
</tr>
<tr>
<td>Safety Advice</td>
<td>Not required</td>
</tr>
<tr>
<td>Hazardous Component(s)</td>
<td>None</td>
</tr>
</tbody>
</table>

16.0 Other information

Date Prepared: July 1, 2004

HP-DMS Document Control Number: This replaces all prior versions of the MSDS.
EU & US 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.