1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation
HP LaserJet Q1338A Print Cartridge

Use of the preparation
This product is a toner preparation that is used in HP LaserJet 4200 series printers.

Manufacturer information
Hewlett-Packard Company
11311 Chinden Boulevard
Boise, ID 83714 USA

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199

General information telephone number
HP Customer Care Line 1-800-474-6836
(Toll-free) 1-800-474-6836
(Direct) 1-208-323-2551

Date prepared
Oct 10, 2005

MSDS number
80040

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>Trade Secret</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Iron oxide</td>
<td>1317-61-9</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

3. 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 and eye contact; and inhalation
- Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

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
None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

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

4. FIRST AID MEASURES

First aid procedures
Skin
Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
**MATERIAL SAFETY DATA SHEET**

**Eye**

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.

**Inhalation**

Move person to fresh air immediately. If irritation persists, consult a physician.

**Ingestion**

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

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### 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point and method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto Ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous combustion products</td>
<td>Carbon monoxide and carbon dioxide.</td>
</tr>
<tr>
<td>Extinguishing media</td>
<td>CO2, water, or dry chemical</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>None known.</td>
</tr>
<tr>
<td>Unusual fire and explosion hazard</td>
<td>Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.</td>
</tr>
<tr>
<td>Fire fighting equipment/instructions</td>
<td>If fire occurs in the printer, treat as an electrical fire.</td>
</tr>
<tr>
<td>Special firefighting procedures</td>
<td>None established.</td>
</tr>
</tbody>
</table>

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### 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal precautions</td>
<td>Minimize dust generation and accumulation. Avoid breathing dust.</td>
</tr>
<tr>
<td>Environmental precautions</td>
<td>Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.</td>
</tr>
<tr>
<td>Procedures if material is released or spilled</td>
<td>Slowly 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. Clean remainder with a damp cloth or vacuum cleaner. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations.</td>
</tr>
</tbody>
</table>

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### 7. HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling</td>
<td>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.</td>
</tr>
<tr>
<td>Storage</td>
<td>Keep out of the reach of children. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.</td>
</tr>
</tbody>
</table>

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure limit values</td>
<td>USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)</td>
</tr>
<tr>
<td></td>
<td>ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)</td>
</tr>
<tr>
<td></td>
<td>Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td>General: No personal respiratory protective equipment required under normal conditions of use.</td>
</tr>
<tr>
<td></td>
<td>Exposure guidelines: Use in a well ventilated area.</td>
</tr>
</tbody>
</table>

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### 9. PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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**Material name** Q1338A  
**Creation date** Sep 20, 2004  
**Version number** 3
MATERIAL SAFETY DATA SHEET

Melting point 100 - 150 °C (212.0 - 302.0 °F) (Softening point)
Softening point 100 - 150 °C (212.0 - 302.0 °F)
Solubility Negligible in water. Partially soluble in toluene and xylene.
Specific gravity 1.4 - 1.8 (H2O = 1)
Flash point Not applicable
Viscosity Not applicable
Vapor density Not applicable
Flammability Not flammable
Appearance Fine powder
Form solid
Odor Slight plastic odor
Oxidizing properties No information available.
Other information Decomposition temperature: > 200 °C
Color Black

10. CHEMICAL STABILITY & REACTIVITY INFORMATION
Stability Stable under normal storage conditions.
Conditions to avoid Imaging Drum: Exposure to light
Hazardous polymerization Will not occur.
Hazardous decomposition products Carbon monoxide and carbon dioxide.
Incompatibility Strong oxidizers

11. TOXICOLOGICAL INFORMATION
Complete toxicity data are not available for this specific formulation.
Refer to Section 3 for potential health effects and Section 4 for first aid measures.
Dermal irritation Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
Eye irritation Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
Sensitization Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
Chronic toxicity No information available.
Oral toxicity LD50/oral/rat >2000 mg/kg, Not harmful. (OECD 401)
Carcinogenicity Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Reproductive toxicity Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).
Symptoms and target organs NIOSH - Pocket Guide - Target Organs
Amorphous silica 7631-86-9 respiratory system, eyes

Material name Q1338A
Creation date Sep 20, 2004
Version number 3
MSDS US
12. ECOLOGICAL INFORMATION
Other information: This product has not been tested for ecological effects.

13. DISPOSAL CONSIDERATIONS
Disposal instructions: 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.

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. TRANSPORTATION INFORMATION
General: Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA
Proper shipping name: Not applicable
Special precautions: None
Packaging exceptions: None
Identification number (UN): None
Packing group: None

15. REGULATORY INFORMATION
International regulations: All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

US federal regulations: US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA 12(b): Contains p-Xylene (CAS No. 106-42-3), subject to export notification requirements.

State regulations: This product contains no chemical substances subject to rules or orders under California Proposition 65.

HMIS ratings
Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Section 302 extremely hazardous substance: No
Section 311 hazardous chemical: No
Hazard categories: Immediate Hazard - No, Delayed Hazard - No, Fire Hazard - No, Pressure Hazard - No, Reactivity Hazard - No
16. OTHER INFORMATION

Other information
This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Issue date
Oct 10 2005 3:07PM

Revision
2

Replaces sheet dated
Jul 18 2005 7:36PM

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.

MSDS sections updated
9. Physical & Chemical Properties: Other information

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
REC  Recommended
REL  Recommended Exposure Limit
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