

651/5995



# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

<b>Material name</b>	HP LaserJet Q5945A Print Cartridge
<b>Use of the preparation</b>	This product is a toner preparation that is used in HP LaserJet 4345mfp/M4345mfp series multifunction products.
<b>Version #</b>	04
<b>Revision date</b>	03-May-2008
<b>Manufacturer information</b>	Hewlett-Packard Company 11311 Chinden Boulevard Boise, ID 83714 USA
<b>Hewlett-Packard health effects line</b>	
<b>(Toll-free within the US)</b>	1-800-457-4209
<b>(Direct)</b>	1-503-494-7199
<b>General information telephone number</b>	
<b>HP Customer Care Line</b>	1-800-474-6836
<b>(Toll-free)</b>	1-800-474-6836
<b>(Direct)</b>	1-208-323-2551
<b>Date prepared</b>	May 03, 2008
<b>MSDS number</b>	274200

## 2. Hazards Identification

### Acute health effects

<b>Skin contact</b>	Unlikely to cause skin irritation.
<b>Eye contact</b>	May cause transient slight irritation
<b>Inhalation</b>	Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.
<b>Ingestion</b>	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, 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, as amended.

## 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Polyester resin	Trade Secret	40 - 50
Iron oxide	1317-61-9	40 - 50
Amorphous silica	7631-86-9	1 - 2



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## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Move person to fresh air immediately. If irritation persists, consult a physician.
<b>Ingestion</b>	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

<b>Flash point and method</b>	Not applicable
<b>Hazardous combustion products</b>	Carbon monoxide and carbon dioxide.
<b>Flammable properties</b>	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO2, water, or dry chemical
<b>Unsuitable extinguishing media</b>	None known.
<b>Unusual fire and explosion hazard</b>	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
<b>Protection of firefighters</b>	
<b>Protective equipment and precautions for firefighters</b>	If fire occurs in the printer, treat as an electrical fire.
<b>Special firefighting procedures</b>	None established.

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## 6. Accidental Release Measures

<b>Personal precautions</b>	Minimize dust generation and accumulation.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
<b>Other information</b>	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.

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## 7. Handling and Storage

<b>Handling</b>	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.
<b>Storage</b>	Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers. Keep tightly closed and dry.



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## 8. Exposure Controls/Personal Protection

### Exposure guidelines

USA OSHA (TWA/PEL): 15 mg/m<sup>3</sup> (Total Dust), 5 mg/m<sup>3</sup> (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m<sup>3</sup> (Inhalable Particulate), 3 mg/m<sup>3</sup> (Respirable Particulate)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m<sup>3</sup>)/%SiO<sub>2</sub>, ACGIH (TWA/TLV): 10 mg/m<sup>3</sup>

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### Personal protective equipment

#### General

No personal respiratory protective equipment required under normal conditions of use.

## 9. Physical & Chemical Properties

### Appearance

Fine powder

### Color

Black

### Odor

Slight plastic odor

### Odor threshold

Not available

### Physical state

Not available

### Form

solid

### pH

Not applicable

### Melting point

Not available

### Freezing point

Not available

### Boiling point

Not applicable

### Flash point

Not applicable

### Evaporation rate

Not available

### Flammability

Not available.

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### Flammability limits in air, upper, % by volume

Not available

### Flammability limits in air, lower, % by volume

Not flammable

13.

### Vapor pressure

Not applicable

### Vapor density

Not applicable

### Specific gravity

1.4 - 1.8 (H<sub>2</sub>O = 1)

### Relative density

Not available

### Solubility in water

Negligible in water. Partially soluble in toluene and xylene.

### Partition coefficient (n-octanol/water)

Not available

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### Auto-ignition temperature

No data available

### Decomposition temperature

Not available

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### Softening point

212 - 302 °F (100 - 150 °C)

### Viscosity

Not applicable

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Material name Q5945A

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Creation date Dec 23, 2004

Version number 4

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## 15. Regulatory Information

<b>US federal regulations</b>	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.
<b>CERCLA (Superfund) reportable quantity</b>	None
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
<b>Hazard categories</b>	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
<b>Section 302 extremely hazardous substance</b>	No
<b>Section 311 hazardous chemical</b>	No
<b>International regulations</b>	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.

## 16. Other Information

<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 1 Instability: 0
<b>Issue date</b>	May 3 2008 2:36PM
<b>Revision</b>	4
<b>Replaces sheet dated</b>	Mar 1 2007 9:44AM
<b>Disclaimer</b>	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.
<b>MSDS sections updated</b>	1. Chemical Product and Company Identification: Use of the preparation 3. Hazards Identification: Other information 7. Handling and Storage: Storage 11. Toxicological Information: Inhalation toxicity 12. Ecological Information: Ecotoxicity effects 12. Ecological Information: Other information 15. Regulatory Information: US federal regulations



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## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds