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# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

**Material name** HP LaserJet Q5949A-X-XC-XD Print Cartridge

**Use of the preparation** This product is a toner preparation that is used in HP LaserJet 1160/1320/3390 series printers.

**Version #** 09

**Revision date** 15-Dec-2007

**Product code(s)** Q5949A-X-XC-XD

**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** Dec 15, 2007

## 2. 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, 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
Styrene acrylate copolymer	Trade Secret	45 - 55
Iron oxide	1317-61-9	40 - 50
Amorphous silica	7631-86-9	1 - 2

**Material name** Q5949A-X-XC-XD

**Creation date** Oct 29, 2004

**Version number** 9

MSDS US

1 / 6



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# MATERIAL SAFETY DATA SHEET

## 1. First Aid Measures

### First aid procedures

#### Eye contact

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.

#### Skin contact

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

#### Inhalation

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

#### Ingestion

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

## 5. Fire Fighting Measures

### Flash point and method

Not applicable

### Hazardous combustion products

Carbon monoxide and carbon dioxide.

### Flammable properties

Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

### Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>, water, or dry chemical

#### Unsuitable extinguishing media

None known.

### Unusual fire and explosion hazard

Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

### Protection of firefighters

#### Protective equipment and precautions for firefighters

If fire occurs in the printer, treat as an electrical fire.

#### Special firefighting procedures

None established.

## 6. Accidental Release Measures

### Personal precautions

Minimize dust generation and accumulation.

### Environmental precautions

Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

### Other information

Slowly vacuum or 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 explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations.

## 7. Handling and Storage

### Handling

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.

### Storage

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.



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# MATERIAL SAFETY DATA SHEET

## 3. 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)

### 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 applicable

### Flammability

Not available.

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

Not available

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

Not flammable

### 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

### Auto-ignition temperature

Not applicable

### Decomposition temperature

Not available

### Softening point

212 - 302 °F (100 - 150 °C)

### Viscosity

Not applicable

## 7. Chemical Stability & Reactivity Information

### Chemical stability

Stable under normal storage conditions.

### Conditions to avoid

Imaging Drum: Exposure to light



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# MATERIAL SAFETY DATA SHEET

**Incompatible materials** Strong oxidizers  
**Hazardous decomposition products** Carbon monoxide and carbon dioxide.  
**Possibility of hazardous reactions** Will not occur.

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## 11. Toxicological Information

**Oral toxicity** LD50/oral/rat >2000 mg/kg, Not harmful. (OECD 401)  
**Eye irritation** Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC. 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.  
**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

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## 12. Ecological Information

**Persistence and degradability** Not available

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## 13. Disposal Considerations

**Disposal instructions** Do not shred toner 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>.

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## 14. Transportation Information

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

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## 15. Regulatory Information

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

### CERCLA (Superfund) reportable quantity

None



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# MATERIAL SAFETY DATA SHEET

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories

Immediate Hazard - No  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

No

### Section 302 extremely hazardous substance

No

### Section 311 hazardous chemical

## 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.

## State regulations

U.S. - Pennsylvania - RTK (Right to Know) List  
 Amorphous silica 7631-86-9 Present  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 Amorphous silica 7631-86-9 sn 1655

## 16. Other Information

### HMIS® ratings

Health: 1  
 Flammability: 1  
 Physical hazard: 0

### NFPA ratings

Health: 1  
 Flammability: 1  
 Instability: 0

### Issue date

Dec 15 2007 9:14AM

### Revision

9

### Replaces sheet dated

Oct 2 2007 9:04PM

### 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

15. Regulatory Information: US federal regulations



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# MATERIAL SAFETY DATA SHEET

## 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