



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HP C3104A Magenta Toner

**Use of the preparation** This product is a magenta toner preparation that is used in HP Color LaserJet/Color LaserJet 5/5M series printers.

**Version #** 06

**Revision date** 08-06-2008

**Manufacturer information** Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, ID 83714 USA  
(Direct) 1-503-494-7199  
(Toll-free within the US) 1-800-457-4209

**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

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**(Direct)** 1-208-323-2551

**Date prepared** Aug 06, 2008

**MSDS number** 304954

## 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
Polyester resin	Trade Secret	< 95
Pigment	Trade Secret	< 12
Wax-1	Trade Secret	< 5
Wax-3	Trade Secret	< 5
Amorphous silica	7631-86-9	< 1
Titanium dioxide	13463-67-7	< 1



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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>	CO <sub>2</sub> , 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. 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.

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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 in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.

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## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

Components	CAS #	TWA	STEL	Ceiling
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup>	Not established	Not established



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## OSHA

Components	CAS #	TWA	STEL	Ceiling
Titanium dioxide	13463-67-7	15 mg/m3 15 mg/m3 TWA total dust	Not established	Not established

## Exposure guidelines

USA OSHA (TWA/PEL): mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO<sub>2</sub>, ACGIH (TWA/TLV): 10 mg/m3

## Personal protective equipment

### General

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

## 9. Physical & Chemical Properties

Appearance	Fine powder
Color	Magenta
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.
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	1.1 (H <sub>2</sub> O = 1)
Relative density	Not available.
Solubility in water	Negligible in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Softening point	284 °F (140 °C)
Viscosity	Not applicable

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Incompatible materials	Strong oxidizers



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## Hazardous decomposition products

Carbon monoxide and carbon dioxide.

## Possibility of hazardous reactions

Will not occur.

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## 11. Toxicological Information

### Component analysis - LD50

Amorphous silica: LD50: oral/rat: 3160 mg/kg, not harmful. Ames test negative.

### Oral toxicity

LD50/oral/rat >5000 mg/kg; Not harmful. (OECD 401). Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

### Inhalation toxicity

LC50: inh/rat > 660 mg/l/4 hrs., (OECD 403).

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

### 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.

### Carcinogenicity

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

### IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Amorphous silica (7631-86-9)

Inadequate data.

Titanium dioxide (13463-67-7)

Inadequate data.

### US ACGIH Threshold Limit Values: A4 carcinogen

Titanium dioxide (13463-67-7)

Group A4 Not classifiable as a human carcinogen.

### 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)

Eyes

Amorphous silica (7631-86-9)

Eyes, resp sys

Amorphous silica (7631-86-9)

Respiratory system

Titanium dioxide (13463-67-7)

Resp sys [in animals: lung tumors]

Titanium dioxide (13463-67-7)

Respiratory system

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## 12. Ecological Information

### Persistence and degradability

Not available.

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## 13. Disposal Considerations

### Disposal instructions

Dispose of in compliance with federal, state, and local regulations.

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## 14. Transport Information

### 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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## 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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

## State regulations

### US - Pennsylvania RTK - Hazardous Substances: Listed substance

Amorphous silica (7631-86-9) Listed.  
Titanium dioxide (13463-67-7) Listed.

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## 16. Other Information

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

**NFPA ratings** Health: 1  
Flammability: 1  
Instability: 0

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**Revision** 6

**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.



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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