



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HP C3105A Black Toner

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

**Version #** 06

**Revision date** 07-31-2008

**Product use** Color LaserJet & Color LaserJet 5 series printers

**Manufacturer information** Hewlett-Packard Company  
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Boise, ID 83714 USA  
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(Toll-free within the US) 1-800-457-4209

**Hewlett-Packard health effects line**

(Toll-free within the US) 1-800-457-4209  
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**General information telephone number**

**HP Customer Care Line** 1-800-474-6836  
(Toll-free) 1-800-474-6836  
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**Date prepared** Jul 30, 2008

**MSDS number** 279804

## 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 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** Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk.

**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
Carbon black	1333-86-4	< 12
Wax-1	Trade Secret	< 5
Wax-3	Trade Secret	< 5
Amorphous silica	7631-86-9	< 3
Titanium dioxide	13463-67-7	< 3



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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 symptoms persist, get medical attention.
<b>Ingestion</b>	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

## 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.

## 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.

## 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.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

Components	CAS #	TWA	STEL	Ceiling
Carbon black	1333-86-4	3.5 mg/m3	Not established	Not established
Titanium dioxide	13463-67-7	10 mg/m3	Not established	Not established



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## OSHA

Components	CAS #	TWA	STEL	Ceiling
Carbon black	1333-86-4	3.5 mg/m3 3.5 mg/m3 TWA	Not established	Not established
Titanium dioxide	13463-67-7	15 mg/m3 15 mg/m3 TWA total dust	Not established	Not established

## Exposure guidelines

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10 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	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.
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	Insoluble 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



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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Incompatible materials</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

<b>Component analysis - LD50</b>	Amorphous silica: LD50: oral/rat: 3160 mg/kg, not harmful. Ames test negative.
<b>Oral toxicity</b>	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.
<b>Inhalation toxicity</b>	LC50: inh/rat 500 mg/m <sup>3</sup> /4 hrs., not harmful (OECD 403). Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
<b>Eye irritation</b>	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
<b>Sensitization</b>	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
<b>Chronic toxicity</b>	No information available.
<b>Carcinogenicity</b>	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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

Amorphous silica (7631-86-9)	Inadequate data.
Carbon black (1333-86-4)	Inadequate data.
Titanium dioxide (13463-67-7)	Inadequate data.

### US ACGIH Threshold Limit Values: A4 carcinogen

Carbon black (1333-86-4)	Group A4 Not classifiable as a human carcinogen.
Titanium dioxide (13463-67-7)	Group A4 Not classifiable as a human carcinogen.

<b>Mutagenicity</b>	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
<b>Reproductive toxicity</b>	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
Carbon black (1333-86-4)	Eyes
Carbon black (1333-86-4)	Respiratory system
Carbon black (1333-86-4)	Serious health hazard. Flammable liquid. May polymerize explosively on loss of inhibitor.
Titanium dioxide (13463-67-7)	Resp sys [in animals: lung tumors]
Titanium dioxide (13463-67-7)	Respiratory system

## 12. Ecological Information

<b>Persistence and degradability</b>	Not available.
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## 13. Disposal Considerations

<b>Disposal instructions</b>	Do not put toner into fire; toner may cause severe burns. 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

### 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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

### State regulations

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon black (1333-86-4) Listed.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (1333-86-4) Listed: February 21, 2003 Carcinogenic.

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

Amorphous silica (7631-86-9) Listed.

Carbon black (1333-86-4) 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

**Issue date** Jul 30 2008 4:58PM

**Revision** 6

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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