



# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

<b>Material name</b>	HP Color LaserJet CB386A Imaging Drum Cartridge
<b>Use of the preparation</b>	This product is an imaging drum that is used in HP Color LaserJet CP6000 and CM6000 MFP series printers.
<b>Version #</b>	01
<b>Revision date</b>	10-Apr-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>	Apr 10, 2008
<b>MSDS number</b>	266623

## 2. Hazards Identification

<b>Acute health effects</b>	
<b>Skin contact</b>	Unlikely to cause skin irritation.
<b>Eye contact</b>	Unlikely to cause irritation under normal use conditions.
<b>Inhalation</b>	Unlikely to cause irritation under normal use conditions.
<b>Ingestion</b>	Unlikely to cause irritation under normal use conditions.
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Skin contact
<b>Chronic health effects</b>	None known.
<b>Carcinogenicity</b>	None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.
<b>Other information</b>	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
Trade Secret	Trade Secret	94 - 99
Polyester resin	Trade Secret	0.2 - 1
Aryl amine derivative	Trade Secret	0.2 - 1
Titanium dioxide	13463-67-7	0.2 - 1

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Not applicable



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<b>Skin contact</b>	In case of irritation, wash with soap and water.
<b>Inhalation</b>	Not applicable
<b>Ingestion</b>	Not applicable

## 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>	None known.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, carbon dioxide.
<b>Unsuitable extinguishing media</b>	water or foam
<b>Unusual fire and explosion hazard</b>	None known.
<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>	Not applicable
<b>Environmental precautions</b>	See also section 13 Disposal considerations.
<b>Other information</b>	Not applicable

## 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 at temperatures below 45°C. 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
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup>	Not established	Not established

#### OSHA

Components	CAS #	TWA	STEL	Ceiling
Titanium dioxide	13463-67-7	15 mg/m <sup>3</sup>	Not established	Not established



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**Exposure guidelines** None established.

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Titanium dioxide 13463-67-7 10 mg/m<sup>3</sup> TWA

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

Titanium dioxide 13463-67-7 15 mg/m<sup>3</sup> TWA (total dust)

**Personal protective equipment**

**General**

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

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## 9. Physical & Chemical Properties

<b>Appearance</b>	Viridian aluminum cylinder
<b>Color</b>	Greenish blue
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Not available
<b>Form</b>	solid
<b>pH</b>	Not applicable
<b>Melting point</b>	> 212 °F (> 100 °C)
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not flammable
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Specific gravity</b>	No information available
<b>Relative density</b>	Not available
<b>Solubility in water</b>	Negligible
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not applicable

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Conditions to avoid</b>	Imaging Drum: Exposure to light
<b>Incompatible materials</b>	Strong oxidizers



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**Hazardous decomposition products** No decomposition if stored normally.

**Possibility of hazardous reactions** Will not occur.

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## 11. Toxicological Information

**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).

**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

Titanium dioxide 13463-67-7 respiratory system (in animals: lung tumors)

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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

### 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



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**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

U.S. - Pennsylvania - RTK (Right to Know) List  
Titanium dioxide 13463-67-7 Present

U.S. - New Jersey - Right to Know Hazardous Substance List  
Titanium dioxide 13463-67-7 sn 1861

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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** 1

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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