



# Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** HP Color LaserJet C4192A Cyan Print Cartridge

**Use of the preparation** This product is a cyan toner preparation that is used in HP Color LaserJet 4500/4550 series printers.

**Revision date** 04-07-2009

**Company identification** Hewlett-Packard, Ltd.  
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## 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.

**Physical hazards** Not classified as a physical hazard.

**Health hazards** Not classified as a health hazard.

**Environmental hazards** Not classified as an environmental hazard.

**Other information** This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Styrene acrylate copolymer	Trade secret	< 80		
Wax	Trade secret	< 15		
Pigment	Trade secret	< 10		
polyester	Trade secret	< 10		
Titanium dioxide	13463-67-7	< 0.5	236-675-5	



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## 4. FIRST AID MEASURES

<b>Inhalation</b>	Move person to fresh air immediately. 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>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>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>Fire fighting equipment/instructions</b>	If fire occurs in the printer, treat as an electrical fire.
<b>Suitable extinguishing media</b>	CO2, water, or dry chemical
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
<b>Hazardous combustion products</b>	Carbon monoxide and carbon dioxide.
<b>Specific methods</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.

## 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### Belgium

Components	Type	Value
Titanium dioxide (13463-67-7)	TWA	10 mg/m3

#### Denmark

Components	Type	Value
Titanium dioxide (13463-67-7)	TLV	6 mg/m3

#### France

Components	Type	Value
Titanium dioxide (13463-67-7)	VME	10 mg/m3



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## Germany

Components	Type	Value	Form
Titanium dioxide (13463-67-7)	AGW	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable dust. Inhalable dust.

## Italy

Components	Type	Value
Titanium dioxide (13463-67-7)	TWA	10 mg/m <sup>3</sup>

## Netherlands

Components	Type	Value
Titanium dioxide (13463-67-7)	Ceiling	10 mg/m <sup>3</sup>

## Spain

Components	Type	Value
Titanium dioxide (13463-67-7)	TWA	10 mg/m <sup>3</sup>

## Sweden

Components	Type	Value	Form
Titanium dioxide (13463-67-7)	TWA	5 mg/m <sup>3</sup>	Total dust.

## Switzerland

Components	Type	Value	Form
Titanium dioxide (13463-67-7)	TWA	3 mg/m <sup>3</sup>	Respirable dust.

## Additional exposure data

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)

TRGS 900 (Luftgrenzwert) - 10 mg/m<sup>3</sup> (Einatembare partikel), 3 mg/m<sup>3</sup> (Alveolengängige fraktion)

UK WEL: 10 mg/m<sup>3</sup> (Respirable Dust), 5 mg/m<sup>3</sup> (Inhalable Dust)

## Personal protective equipment

### General

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Physical state	Not available.
Form	solid
Color	Cyan
Odor	Slight plastic odor
Odour threshold	Not available.
pH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.



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<b>Flammability limits in air, lower, % by volume</b>	Not flammable
<b>Vapor pressure</b>	Not applicable
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible in water. Partially soluble in toluene and xylene.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Viscosity</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable
<b>Specific gravity</b>	1 - 1.2 (H <sub>2</sub> O = 1)
<b>Softening point</b>	100 - 150 °C (212 - 302 °F)

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## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal storage conditions.
<b>Materials to avoid</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.
<b>Hazardous polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation toxicity</b>	LC50: inh/rat > 5 mg/l/4 hrs., (OECD 403).  Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
<b>Oral toxicity</b>	LD50/oral/rat >2000mg/kg; Not harmful. (OECD 401). Not classified for acute oral 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>Chronic toxicity</b>	No information available.
<b>Sensitization</b>	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
<b>Carcinogenicity</b>	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
<b>Mutagenicity</b>	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
<b>Reproductivity</b>	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).
<b>Further information</b>	Complete toxicity data are not available for this specific formulation. Refer to Section 3 for potential health effects and Section 4 for first aide measures.

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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	96.00 Hours, LL50 > 1000 mg/l, rainbow trout
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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. TRANSPORT INFORMATION

### General

Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

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## 15. REGULATORY INFORMATION

### 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.

### Labeling

#### Contains

Pigment, polyester, Styrene acrylate copolymer, Titanium dioxide, Wax

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## 16. OTHER INFORMATION

### Manufacturer information

Hewlett-Packard Company  
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Boise, ID 83714 USA  
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### Other information

This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

### 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.

### Issue date

04-07-2009



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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