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# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation

HP Color LaserJet C4193A Magenta Print Cartridge

Use of the preparation

This product is a magenta toner preparation that is used in HP Color LaserJet 4500/4550 series printers.

Manufacturer information

Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, ID 83714 USA

Hewlett-Packard health effects line

(Toll-free within the US)  
(Direct) 1-800-457-4209  
1-503-494-7199

General information telephone number

HP Customer Care Line 1-800-474-6836  
(Toll-free) 1-800-474-6836  
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Date prepared

Mar 01, 2007

MSDS number

219833

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
Styrene acrylate copolymer	Trade Secret	60 - 80
Wax	Trade Secret	5 - 15
Polyester resin	Trade Secret	5 - 10
Pigment	Trade Secret	5 - 10
Titanium dioxide	13463-67-7	< 0.5

## 3. 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, and as amended.



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## 1. FIRST AID MEASURES

**First aid procedures**

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

**Eye**  
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.

**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

**Auto ignition temperature**  
Not applicable

**Hazardous combustion products**  
Carbon monoxide and carbon dioxide.

**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.

**Fire fighting equipment/instructions**  
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. Avoid breathing dust.

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

**Procedures if material is released or spilled**  
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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limit values**  
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)

OSHA - Final PELs - Time Weighted Averages (TWAs)  
Titanium dioxide 13463-67-7 15 mg/m<sup>3</sup> TWA (total dust)

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)  
Titanium dioxide 13463-67-7 10 mg/m<sup>3</sup> TWA

Material name C4193A

Creation date Oct 19, 2004

Version number 3

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## Personal protective equipment

### General

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

### Exposure guidelines

Use in a well ventilated area.

## 9. PHYSICAL & CHEMICAL PROPERTIES

pH	Not applicable
Vapor pressure	Not applicable
Boiling point	Not applicable
Softening point	100 - 150 °C (212.0 - 302.0 °F)
Solubility	Negligible in water. Partially soluble in toluene and xylene.
Specific gravity	1 - 1.2 (H <sub>2</sub> O = 1)
Flash point	Not applicable
Viscosity	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Flammability	Not flammable
Appearance	Fine powder
Form	solid
Odor	Slight plastic odor
Oxidizing properties	No information available.
Other information	Decomposition temperature: > 200° C
Color	Magenta

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Stable under normal storage conditions.
Hazardous polymerization	Will not occur.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Incompatibility	Strong oxidizers

## 11. TOXICOLOGICAL INFORMATION

Complete toxicity data are not available for this specific formulation  
Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Dermal irritation	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
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.
Oral toxicity	LD50/oral/rat >2000 mg/kg , Not harmful. (OECD 401)
Inhalation toxicity	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.



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## 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)

## 12. ECOLOGICAL INFORMATION

### Environmental fate

#### Bioaccumulation

Titanium dioxide: Not bioaccumulated.

#### Other information

No data available for ecological and wastewater treatment (sewage) systems.

## 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>.

## 14. TRANSPORTATION INFORMATION

### General

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

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

### US federal regulations

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

US TSCA 12(b): Contains p-Xylene (CAS No. 106-42-3), subject to export notification requirements.

### HMIS ratings

Health: 1  
Flammability: 1  
Physical hazard: 0  
Health: 1  
Flammability: 1  
Instability: 0

### NFPA ratings

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

### Hazard categories

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



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## 16. OTHER INFORMATION

### Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Issue date Mar 1 2007 12:18PM  
 Revision 3  
 Replaces sheet dated Jan 22 2007 2:13PM  
 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

1. Chemical Product and Company Identification: Use of the preparation
3. Hazards Identification: Routes of exposure
8. Exposure Controls/Personal Protection: Exposure limit values
9. Physical & Chemical Properties: Other information
11. Toxicological Information: Inhalation toxicity
13. Disposal Considerations: Disposal instructions
15. Regulatory Information: State regulations

### Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds