



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Material name	HP Color LaserJet CB384A Imaging Drum Cartridge
Use of the preparation	This product is an imaging drum that is used in HP Color LaserJet CP6000 and CM6000 MFP series printers.
Version #	05
Revision date	18-Jun-2008
Manufacturer information	Hewlett-Packard Company 11311 Chinden Boulevard Boise, ID 83714 USA
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
(Toll-free)	1-800-474-6836
(Direct)	1-208-323-2551
Date prepared	Jun 18, 2008
MSDS number	286674

2. Hazards Identification

Acute health effects	
Skin contact	Unlikely to cause skin irritation.
Eye contact	Unlikely to cause irritation under normal use conditions.
Inhalation	Unlikely to cause irritation under normal use conditions.
Ingestion	Unlikely to cause irritation under normal use conditions.
Potential health effects	
Routes of exposure	Skin contact
Chronic health effects	None known.
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
Aluminum alloy	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

First aid procedures	
Eye contact	Not applicable



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

5. Fire Fighting Measures

Flash point and method	Not applicable
Hazardous combustion products	Carbon monoxide and carbon dioxide.
Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Dry chemical, carbon dioxide.
Unsuitable extinguishing media	water or foam
Unusual fire and explosion hazard	None known.
Protection of firefighters	
Protective equipment and precautions for firefighters	If fire occurs in the printer, treat as an electrical fire.
Special firefighting procedures	None established.

6. Accidental Release Measures

Personal precautions	Not applicable
Environmental precautions	See also section 13 Disposal considerations.
Other information	Not applicable

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 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 ³	Not established	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Titanium dioxide	13463-67-7	15 mg/m ³	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/m3 TWA
U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Titanium dioxide 13463-67-7 15 mg/m3 TWA (total dust)

Personal protective equipment

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

9. Physical & Chemical Properties

Appearance Viridian aluminum cylinder
Color Greenish blue
Odor Odorless
Odor threshold Not available
Physical state Not available
Form solid
pH Not applicable
Melting point > 212 °F (> 100 °C)
Freezing point Not available
Boiling point Not applicable
Flash point Not applicable
Evaporation rate Not applicable
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 No information available
Relative density Not available
Solubility in water Negligible
Partition coefficient (n-octanol/water) Not available
Auto-ignition temperature Not applicable
Decomposition temperature Not available
Viscosity Not applicable

10. Chemical Stability & Reactivity Information

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



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Hazardous decomposition products No decomposition if stored normally.

Possibility of hazardous reactions Will not occur.

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)

12. Ecological Information

Persistence and degradability Not available

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

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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/NDL), 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

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 5

Replaces sheet dated Apr 11 2008 8:11PM

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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