

# **MATERIAL SAFETY DATA SHEET**

## **1. Product and Company Identification**

HP Color LaserJet CB542A Yellow Print Cartridge
This product is a yellow toner preparation that is used in HP Color LaserJet CP1500, CM1300, and CP1200 series printers.
05
14-Apr-2012
Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inguiries@hp.com

## 2. Hazards Identification

Acute health effe	cts	
Skin cont	act	Unlikely to cause skin irritation.
Eye conta	act	May cause transient slight irritation
Inhalatio	n	Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust. Use of this product as intended does not result in inhalation of excessive amounts of dust.
Ingestion	ı	Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.
Potential health e	effects	
Routes of	f 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 h	ealth 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.
Carcinoge	enicity	Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.
Other inform	ation	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

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	< 85
Wax	Trade Secret	< 10
Pigment	Trade Secret	< 5

Amorphous silica		7631-86-9	< 3
Titanium dioxide		13463-67-7	< 1
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with least 15 minutes or until particles are rem		
Skin contact	Wash affected areas thoroughly with mild develops or persists.	d soap and water. Get medical at	tention if irritation
Inhalation	Move person to fresh air immediately. If i	irritation persists, consult a physi	cian.
Ingestion	Rinse mouth out with water. Drink one to physician.	two glasses of water. If sympto	ms occur, consult a
5. Fire Fighting Measures	5		
Flammable properties	Like most organic material in powder forr dispersed in air.	n, toner can form explosive dust	air mixtures when finely
Extinguishing media Suitable extinguishing media	CO2, water, or dry chemical		
Unsuitable extinguishing media	None known.		
Protection of firefighters			
Protective equipment and precautions for firefighters	If fire occurs in the printer, treat as an ele	ectrical fire.	
Specific methods	None established.		
Hazardous combustion products	Carbon monoxide and carbon dioxide.		
6. Accidental Release Me	asures		
Personal precautions	Minimize dust generation and accumulation	on.	
Environmental precautions	Do not flush into surface water or sanitar considerations.	y sewer system. See also section	13 Disposal
Other information	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 i with adequate ventilation. Keep away fro		
Storage	Keep out of the reach of children. Keep tightly closed and dry. Store away from strong oxidizers. Store at room temperature.		
8. Exposure Controls / Pe	ersonal Protection		
Occupational exposure limits			
ACGIH			
	Туре	Value	

## U.S. - OSHA

Components	Туре	Value	Form
Titanium dioxide (13463-67-7)	PEL	15.0000 mg/m3	Total dust.

U.S Tennessee			
Components	Туре	Value	Form
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m3	Total dust.
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): mg/m3	20 mppcf 80 (mg/m3)/%S	O2, ACGIH (TWA/TLV): 10
Engineering controls	Use in a well ventilated area.		
Personal protective equipment			
General	No personal respiratory protective equipme	nt required under normal c	onditions of use.

#### 9. Physical & Chemical Properties

J. Physical & chemical P	Toperaes
Appearance	Fine powder
Color	Yellow
Odor	Slight plastic odor
Odor threshold	Not available.
Physical state	Solid
Form	solid
pH	Not applicable
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
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 available.
Specific gravity	1 - 1.2 (H2O = 1)
Relative density	Not available.
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Softening point	176 - 266 °F (80 - 130 °C)
Viscosity	Not applicable
Percent volatile	0 % estimated
VOC	Not available.
Other information	Decomposition temperature: > 200 ° C
10. Chemical Stability &	Reactivity Information
Chomical stability	Stable under normal storage conditions

# Chemical stabilityStable under normal storage conditions.Conditions to avoidImaging Drum: Exposure to lightIncompatible materialsStrong oxidizers

Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Informa	ition	
Oral toxicity	LD50/oral/rat >2000 mg/kg; (OECD 401); Not harmful Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.	
Carcinogenicity	Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.	
	None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.	
ACGIH Carcinogens		
Titanium dioxide (CAS 134 IARC Monographs. Overall	A4 Not classifiable as a human carcinogen. Evaluation of Carcinogenicity	
Titanium dioxide (CAS 13 <sup>2</sup> IARC Monographs: Evidenc	2B Possibly carcinogenic to humans.	
Titanium dioxide (CAS 134	163-67-7) Inadequate data.	
Inhalation toxicity	No information available.	
	Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.	
Serious eye damage/eye irritation	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.	
Chronic toxicity	No information available.	
Sensitization	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).	
Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)	
Reproductivity	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).	
Symptoms and target organs Target Organs (NIOSH)		
Titanium dioxide (CAS 134	163-67-7) Respiratory system	
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.	
12. Ecological Informatio	n	
Ecotoxicity	LC50: > 100 mg/l, Fish, 96.00 Hours	
Persistence and degradability	Not available.	
Other adverse effects	This product has not been tested for ecological effects.	
13. Disposal Consideratio	ns	
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. Transport Information	n	
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	
15. Regulatory Information	on	
US federal regulations	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.	
CERCLA (Superfund) reportable None	e quantity	

29 CFR 1910.1200 hazardous chemical	No
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	Νο
Section 311 hazardous chemical	No
State regulations	
US - Pennsylvania RTK - I	Hazardous Substances: Listed substance
Titanium dioxide (CAS 1	
Regulatory information	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.
16. Other Information	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
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 preparati 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	14-Apr-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Physical States Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Physical & Chemical Properties Ecological Information: Ecotoxicity
Manufacturer information	Hewlett-Packard Company 11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

### 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