

MATERIAL SAFETY DATA SHEET

DRAFT VERSION

1. Product and Company Identification

Identification of the preparation	HP Color LaserJet CF212A Yellow Print Cartridge
Product use	This product is a yellow toner preparation that is used in HP LaserJet Pro 200 color M251 and HF LaserJet Pro 200 color MFP M276 series printers.
Version #	00
Revision date	21-May-2012
Company identification	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.inquiries@hp.com
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2. Hazards Identification

Inlikely to cause skin irritation. Nay cause transient slight irritation Ninimal 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. ow acute toxicity. Ingestion is a minor route of entry for intended use of this product.
Animal 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.
Ise of this product as intended does not result in inhalation of excessive amounts of dust.
ow acute toxicity. Ingestion is a minor route of entry for intended use of this product.
otential routes of exposure under normal use conditions are skin and eye contact; and nalation
ngestion is not expected to be a primary route of exposure for this product under normal use onditions.
rolonged 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.
itanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly arcinogenic to humans). The IARC classification was based on high concentrations of titanium lioxide particles in animal lungs. Under intended use of this toner product, exposure to itanium dioxide is much lower.
his product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 999/45/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) 907/2006.

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 ren		
Skin contact	Wash affected areas thoroughly with mild develops or persists.	d soap and water. Get medical at	ention if irritation
Inhalation	Move person to fresh air immediately. If	irritation persists, consult a physic	cian.
Ingestion	Rinse mouth out with water. Drink one to physician.	two glasses of water. If sympton	ns occur, consult a
5. Fire Fighting Measures	S		
Flammable properties	Like most organic material in powder for 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 el	ectrical fire.	
Specific methods	None established.		
Hazardous combustion products	Carbon monoxide and carbon dioxide.		
6. Accidental Release Me	easures		
Personal precautions	Minimize dust generation and accumulation	on.	
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.		
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 to Store at room temperature.	ightly closed and dry. Store away	from strong oxidizers.
8. Exposure Controls / P	ersonal Protection		
Occupational exposure limits ACGIH			
Components	Туре	Value	
Titanium dioxide (13463-67-7		10.0000 mg/m3	

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Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m3	
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)/%Si	iO2, ACGIH (TWA/TLV): 10		
Engineering controls	Use in a well ventilated area.				
Personal protective equipment					
General	No personal respiratory protective equipme	ent required under normal o	onditions of use.		

9. Physical & Chemical Properties

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Appearance	Fine powder
Color	Yellow
Odor	Slight plastic odor
Odor threshold	Not available.
Physical state	Solid
Form	solid
рН	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
Chemical stability	Stable under normal storage conditions.

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Imaging Drum: Exposure to light
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Informa	ation		
Oral toxicity	LD50/oral/rat >2000 mg/kg; (OECD 401); Not harmful Not classified for acute oral toxicity		
Carcinogenicity	according to EU Directive 67/548/EEC and 1999/45/EC. 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 in ACGIH, EU, IARC, M	gredients in this preparation are classified as carcinogens according to AK, NTP or OSHA.	
ACGIH Carcinogens			
Titanium dioxide (CAS 13 IARC Monographs. Overall		A4 Not classifiable as a human carcinogen. enicity	
Amorphous silica (CAS 76	2	3 Not classifiable as to carcinogenicity to humans.	
Titanium dioxide (CAS 13 IARC Monographs: Eviden		2B Possibly carcinogenic to humans.	
Titanium dioxide (CAS 13		Inadequate data.	
Inhalation toxicity	No information avail	•	
initiation toxicity			
	Not classified for acu 1999/45/EC.	ute inhalation toxicity according to EU Directive 67/548/EEC and	
Serious eye damage/eye irritation	Not classified as irritant, Directive 67/548/EEC and	according to OSHA Hazard Communication Standard (HCS) and EU d 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)			
Amorphous silica (CAS 76	31-86-9)	Eyes Respiratory system	
Titanium dioxide (CAS 13	463-67-7)	Respiratory system	
Further information	Complete toxicity data ar	e not available for this specific formulation tential health effects and Section 4 for first aid measures.	
12. Ecological Information	on		
Ecotoxicity	LC50: > 100 mg/l, Fish,	96.00 Hours	
Persistence and degradability	Not available.		
13. Disposal Consideratio 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.		
	of HP original inkjet and	demark) supplies recycling program enables simple, convenient recycling LaserJet supplies. For more information and to determine if this service on, please visit http://www.hp.com/recycle.	
14. Transport Informatio	n		
Further information	Not a dangerous good ur	nder DOT, IATA, ADR, IMDG, or RID.	
15. Regulatory Informati	ion		
US federal regulations		All chemical substances in this product comply with all rules or orders	
CERCLA (Superfund) reportabl None	e quantity		
Material name: HP Color Laser1et CF2	124 Vellow Print Cartridge		

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	No
Section 311 hazardous chemical	No
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 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	21-May-2012
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