

# SAFETY DATA SHEET

### 1. Identification

Product identifier	HP Color LaserJet CF320A-X-XC Black Print Cartridge
Other means of identification	Not available.
Recommended use	This product is a black toner preparation that is used in HP Color LaserJet Enterprise M651/ HF Color LaserJet Enterprise Flow MFP M680 series printers.
<b>Recommended restrictions</b>	None known.
Issue date	19-Nov-2014
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-5020 Hewlett-Packard health effects line
	(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

### 2. Hazard(s) identification

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Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.
Supplemental information	None.

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
Styrene acrylate copolymer		Trade Secret	<85	
Carbon black		1333-86-4	<10	
Wax	Wax	Trade Secret	<10	
Amorphous silica	Amorphous silica	7631-86-9	<3	
Titanium dioxide	Titanium dioxide	13463-67-7	<1	

4. First-aid measures	
Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	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.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
Most important symptoms/effects, acute and delayed	Not available.

# 5. Fire-fighting measures

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Suitable extinguishing media	CO2, water, or dry chemical		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
Fire-fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.		
Specific methods	None established.		
6. Accidental release mea	asures		
Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.		
Methods and materials for containment and cleaning up	Not available.		
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.		
7. Handling and storage			

Precautions for safe 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.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep tightly closed and dry. Store away from strong oxidizers. Store at room temperature.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. ACGIH Threshold Limit Va	lues		
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

US. NIOSH: Pocket Guide t Components	Туре		Value			
Amorphous silica (CAS 7631-86-9)	TWA		6 mg/m3			
Carbon black (CAS 1333-86-4)	TWA 0.1 mg/m3					
Biological limit values	No biological exposure limits noted for the ingredient(s).					
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: U mg/m3	A OSHA (TWA/PEL): 20 mp	opcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10			
	TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion					
	UK WEL: 10 mg/m3	Respirable Dust), 5 mg/m3	(Inhalable Dust)			
Appropriate engineering controls	Use in a well ventilat	d area.				
Individual protection measures		rotective equipment				
Eye/face protection	Not available.					
Skin protection						
Hand protection	Not available.					
Other	Not available.					
Respiratory protection	Not available.					
Thermal hazards	Not available.					
9. Physical and chemical	properties					
Appearance	Fine powder					
Physical state	Solid.					
Color	Black.					
Ddor	Slight plastic odor					
Ddor threshold	Not available.					
эΗ	Not applicable					
Melting point/freezing point	Not available.					
Initial boiling point and poiling range	Not applicable					
Flash point	Not applicable					
Evaporation rate	Not applicable					
Flammability (solid, gas)	Not available.					
Jpper/lower flammability or ex	xplosive limits					
Flammability limit - lower (%)	•					
Flammability limit - upper (%)	Not available.					
Explosive limit - lower (%)	Not available.					
Explosive limit - upper (%)	Not available.					
apor pressure	Not applicable					
Solubility(ies)						
Solubility (water)	Negligible in water.	artially soluble in toluene ar	nd xylene.			
Partition coefficient	Not available.	-				

Auto-ignition temperature	Not applicable
Decomposition temperature	> 392 °F (> 200 °C)
Viscosity	Not applicable
Other information	
Percent volatile	0 % estimated
Softening point	176 - 266 °F (80 - 130 °C)
Specific gravity	1 - 1.2

# 10. Stability and reactivity

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

# **11.** Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological e	ffects	
Acute toxicity		
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not classified as irritant, accor Directive 67/548/EEC and as a	ding to OSHA Hazard Communication Standard (HCS) and EU amended.
Respiratory or skin sensitization	on	
<b>Respiratory sensitization</b>	Not available.	
Skin sensitization	Not classified as irritant, accor Directive 67/548/EEC and as a	ding to OSHA Hazard Communication Standard (HCS) and EU amended.
Germ cell mutagenicity	Negative, does not indicate m	utagenic potential (Ames Test: Salmonella typhimurium)
Carcinogenicity	2B) and by the State of Califor organizations indicate that exp	carcinogen by the IARC (possibly carcinogenic to humans, Group rnia under Proposition 65. In their evaluations of carbon black, both posure to carbon black, per se, does not occur when it remains c, specifically, rubber, ink, or paint. Carbon black is present only in a n.
	carcinogenic to humans). The	by the IARC as a Group 2B carcinogen (the substance is possibly IARC classification was based on high concentrations of titanium gs. Under intended use of this toner product, exposure to titanium
	None of the other ingredients EU, IARC, MAK, NTP or OSHA	in this preparation are classified as carcinogens according to ACGIH,
IARC Monographs. Overall	<b>Evaluation of Carcinogenici</b>	ty
Amorphous silica (CAS 76 Carbon black (CAS 1333- Titanium dioxide (CAS 13	86-4)	<ul><li>3 Not classifiable as to carcinogenicity to humans.</li><li>2B Possibly carcinogenic to humans.</li><li>2B Possibly carcinogenic to humans.</li></ul>
Reproductive toxicity	Not classified as toxic accordir and DFG (Germany).	ng to EU Directive 67/548/EEC and as amended, California Prop. 65,
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	

Chronic effects	No informatio	n available.	
Further information	Complete toxicity data are not available for this specific formulation		
	Refer to Section 2 for potential health effects and Sect		
Components	Species		Test Results
Amorphous silica (CAS 7631-86-9)	)		
Acute Oral			
LD50	Mouse		> 15000 mg/kg
	Rat		> 22500 mg/kg
Carbon black (CAS 1222 96 4)	Rat		> 22300 mg/kg
Carbon black (CAS 1333-86-4) Acute			
Oral			
LD50	Rat		> 8000 mg/kg
12. Ecological information	on		
Aquatic toxicity	Not available		
Ecotoxicity	LC50: > 100 r	ng/l, Fish, 96.00 Hours	
Product		Species	Test Results
CF320A-X-XC		-	
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 Hours
Components		Species	Test Results
Titanium dioxide (CAS 13463-	-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	This product h	has not been tested for ecological effect	s.
13. Disposal consideration	ons		
Disposal instructions			revention measures are taken. Finely . Dispose of in compliance with federal, state,
	HP original inl		rogram enables simple, convenient recycling of formation and to determine if this service is com/recycle.
14. Transport information	on		
Further information	Not a dangero	bus good under DOT, IATA, ADR, IMDG,	, or RID.
15. Regulatory informat	ion		
US federal regulations	US EPA TSCA under TSCA.	Inventory: All chemical substances in t	his product comply with all rules or orders
TSCA Section 12(b) Expor Not regulated. CERCLA Hazardous Substa			
Not listed. SARA 304 Emergency rele	ase notificatio	n	
Not regulated. OSHA Specifically Regulat Not listed.	ed Substances	s (29 CFR 1910.1001-1050)	
Material name: CF320A-X-XC			SDS US

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

Superruna Amenaments and R	eauthorization Act of 1960 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazar	dous substance
Not listed.	
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Sectior	112 Hazardous Air Pollutants (HAPs) List
Not regulated.	

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

#### (SDWA)

#### **US state regulations**

#### US. Massachusetts RTK - Substance List

Amorphous silica (CAS 7631-86-9) Carbon black (CAS 1333-86-4) Titanium dioxide (CAS 13463-67-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Carbon black (CAS 1333-86-4) Titanium dioxide (CAS 13463-67-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Amorphous silica (CAS 7631-86-9) Carbon black (CAS 1333-86-4) Titanium dioxide (CAS 13463-67-7)

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS 1333-86-4) TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7) Listed: September 2, 2011

#### **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, including date of preparation or last revision

Issue date	19-Nov-2014
Revision date	09-Dec-2014
Version #	02
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.

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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