

MATERIAL SAFETY DATA SHEET

1. Product and Company	Identification				
Material name	HP Color LaserJet CF353A Magenta Print Cartridge				
Version #	01				
Issue date	08-Nov-2013				
Product use	This product is a magenta toner preparation that is used in HP Color LaserJet Pro MFP M176/ HF Color LaserJet Pro MFP M177 series printers.				
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.inguiries@hp.com				
2. Hazards Identification					
Potential health effects					
Eyes	May cause transient slight irritation				
Skin	Unlikely to cause skin irritation.				
Inhalation	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	Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.				
Other hazards	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

Hazardous components	CAS #	Percent
Titanium dioxide	13463-67-7	<1
Non-hazardous components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	<85
Pigment	Trade Secret	<10
Wax	Trade Secret	<10
Amorphous silica	7631-86-9	<3

4. First Aid Measures	
General advice	No information
First aid procedures	
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.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.

Material name: CF353A

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5. Fire Fighting Measures				
Flammable properties	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.			
Extinguishing media				
Suitable extinguishing media	CO2, water, or dry chemical			
Unsuitable extinguishing media	None known.			
Fire fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.			
Specific methods	None established.			
Hazardous combustion products	Carbon monoxide and carbon dioxide.			
5. Accidental Release Measu	ires			
Personal precautions	Minimize dust generation and accum	ulation.		
Environmental precautions	Do not flush into surface water or sa considerations.		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. Av with adequate ventilation. Keep away			
Storage	Keep out of the reach of children. Keep tightly closed and dry. Store away from strong oxidizers. Store at room temperature.			
	Store at room temperature.		, 5	
8. Exposure Controls / Perso	-		, ,	
•	-			
Occupational exposure limits	onal Protection			
•	onal Protection	Value		
	nal Protection	Value 10 mg/m3		
Occupational exposure limits US. ACGIH Threshold Limit Components Titanium dioxide (CAS 13463-67-7) US. OSHA Table Z-1 Limits	onal Protection Yalues TWA TWA for Air Contaminants (29 CFR 191	10 mg/m3 0.1000)		
Occupational exposure limits US. ACGIH Threshold Limit Components Titanium dioxide (CAS 13463-67-7) US. OSHA Table Z-1 Limits Components	Type TWA for Air Contaminants (29 CFR 191 Type	10 mg/m3 0.1000) Value	Form	
Occupational exposure limits US. ACGIH Threshold Limit Components Titanium dioxide (CAS 13463-67-7) US. OSHA Table Z-1 Limits Components Titanium dioxide (CAS 13463-67-7)	Type TWA for Air Contaminants (29 CFR 191 Type PEL	10 mg/m3 0.1000)		
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9. Physical & Chemical Properties

Appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Magenta
Odor	Slight plastic odor
рН	Not applicable
Vapor pressure	Not applicable
Boiling point	Not applicable
Melting point/Freezing point	Not available.
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Specific gravity	1 - 1.2
Flash point	Not applicable
Viscosity	Not applicable
Percent volatile	0 % estimated
Softening point	176 - 266 °F (80 - 130 °C)
VOC	Not available
Other information	No information available
Other data	
Decomposition temperature	> 392 °F (> 200 °C)

10. Chemical Stability & Reactivity Information

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 Information

Toxicological data			
Components	Species	Test Results	
Amorphous silica (CAS 7631-8	86-9)		
Acute			
Oral			
LD50	Mouse	> 15000 mg/kg	
	Rat	> 22500 mg/kg	
Sensitization	Not classified as a ser HCS (US).	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).	
Chronic effects	No information availa	ble.	
Carcinogenicity	Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibl carcinogenic to humans). The IARC classification was based on high concentrations of titaniu dioxide particles in animal lungs. Under intended use of this toner product, exposure to titar dioxide is much lower.		
	None of the other ing EU, IARC, MAK, NTP	redients in this preparation are classified as carcinogens according to ACGIH, or OSHA.	
ACGIH Carcinogens			
TITANIUM DIOXIDE	(CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.	

IARC Monographs. Over	all Evaluation of Carcin	nogenicity	
Amorphous silica (CAS	-	3 Not classifiable as to carcinogenicity to humans.	
Titanium dioxide (CAS	13463-67-7)	2B Possibly carcinogenic to humans.	
Serious eye damage/eye irritation	Not classified as irrita Directive 67/548/EEC	ant, according to OSHA Hazard Communication Standard (HCS) and EU C and as amended.	
Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)		
Reproductive effects	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).		
Further information	• • •	a are not available for this specific formulation r potential health effects and Section 4 for first aid measures.	
12. Ecological Information			

Ecotoxicological data Product		Species	Test Results
CF353A			
Fish	LL50	Fish	> 1000 mg/l, 96 Hours
Components		Species	Test Results
Titanium dioxide (CAS 13463-67-7	7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Ecotoxicity	LL50: > 1000	mg/l, Fish, 96.00 Hours	
Persistence and degradability	Not available.		
13. Disposal Considerations			
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Disposal instructions			Dispose of in compliance with federal, state
	of HP original		ogram enables simple, convenient recycling information and to determine if this service p.com/recycle.
14. Transport Information			
Further information	Not a dangero	ous good under DOT, IATA, ADR, IMDG,	or RID.
15. Regulatory Information			
US federal regulations	US EPA TSCA under TSCA.	Inventory: All chemical substances in th	is product comply with all rules or orders
	istration (DEA)	. List 2, Essential Chemicals (21 CFF	R 1310.02(b) and 1310.04(f)(2) and
Chemical Code Number			
Not listed. Drug Enforcement Admini	istration (DEA)	. List 1 & 2 Exempt Chemical Mixtur	res (21 CFR 1310.12(c))
Not regulated.			
DEA Exempt Chemical Mix	ctures Code Nu	Imber	
Not regulated.			
TSCA Section 12(b) Expor	t Notification ((40 CFR 707, Subpt. D)	
Not regulated.			
CERCLA (Superfund) reportab	le quantity		
None			
Superfund Amendments and I	Reauthorizatio	n Act of 1986 (SARA)	
Hazard categories	Immediate Ha Delayed Haza Fire Hazard -	rd - No	

SARA 302 Extremely hazardous substance	No			
SARA 311/312 Hazardous chemical	No			
Other regulations	under chemical substances no	HP product have been notified or are exempt from notification tification laws in the following countries: US (TSCA), EU , Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,		
State regulations				
US - California Propositio	n 65 - CRT: Listed date/Carci	nogenic substance		
TITANIUM DIOXIDE (AI OF RESPIRABLE SIZE) ((Listed: September 2, 2011 Carcinogenic.		
US - New Jersey RTK - Su	bstances: Listed substance			
Titanium dioxide (CAS 1. US. Massachusetts RTK -		Listed.		
Amorphous silica (CAS 7 Titanium dioxide (CAS 1 US. Pennsylvania RTK - H	3463-67-7)			
Titanium dioxide (CAS 1. US. Rhode Island RTK	3463-67-7)	Listed.		
Titanium dioxide (CAS 1	3463-67-7)			
16. Other Information		-		
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.			
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).			
Issue date	08-Nov-2013			
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