MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name HP Color LaserJet CF358A Imaging Drum Cartridge

Version # 01

Issue date 08-Nov-2013

Product useThis product is a black toner preparation that is used in HP Color LaserJet Enterprise flow MFF

M880 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.inquiries@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 hazardsCarbon 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.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Carbon black	1333-86-4	<10
Titanium dioxide	13463-67-7	<1
Non-hazardous components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	<85

Non-hazardous components	CAS #	Percent	
Styrene acrylate copolymer	Trade Secret	<85	
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 contactWash 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.

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Ingestion Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a

physician.

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

Specific methods

None established.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Minimize dust generation and accumulation.

Environmental precautions Do not flush into surface water or sanitary sewer system. See also section 13 Disposal

If fire occurs in the printer, treat as an electrical fire.

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 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. Keep tightly closed and dry. Store away from strong oxidizers.

Store at room temperature.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon black (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			
Titanium dioxide (CAS	TWA	10 mg/m3	
13463-67-7)			

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	Value	Form
Carbon black (CAS	PEL	3.5 mg/m3	
1333-86-4)			
Titanium dioxide (CAS	PEL	15 mg/m3	Total dust.
13463-67-7)		-	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
Amorphous silica (CAS	TWA	6 mg/m3
7631-86-9)		
Carbon black (CAS	TWA	0.1 mg/m3
1333-86-4)		_

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

05. Telliessee. Octs. Occupational exposure clinits, Table 21A				
Components	Туре	Value	Form	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3		
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.	

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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): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10

mg/m3

Engineering controls Use in a well ventilated area.

Personal protective equipment

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

9. Physical & Chemical Properties

Appearance Fine powder **Physical state** Solid. **Form** solid Color Black.

Odor Slight plastic odor рH 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.

1 - 1.2 Specific gravity

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 > 392 °F (> 200 °C)

temperature

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 Will not occur.

reactions

11. Toxicological Information

Toxicological data

Test Results Components **Species**

Amorphous silica (CAS 7631-86-9)

Acute

Oral

LD50 Mouse > 15000 mg/kg

> Rat > 22500 mg/kg

Material name: CF358A MSDS US 3/6 Components Species Test Results

Carbon black (CAS 1333-86-4)

Acute *Oral*

LD50 Rat > 8000 mg/kg

Sensitization Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA

HCS (US).

Chronic effects No information available.

Carcinogenicity Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group

2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a

bound form in this preparation.

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

CARBON BLACK, INHALABLE FRACTION (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to

humans.

TITANIUM DIOXIDE (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Carbon black (CAS 1333-86-4)

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

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.

Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Reproductive effectsNot classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65,

and DFG (Germany).

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 Information

Ecotoxicological data

Product		Species	Test Results
CF358A			
Fish	LC50	Fish	> 100 mg/l, 96 Hours
Components		Species	Test Results
Titanium dioxide (CAS 134	463-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours

Ecotoxicity LC50: > 100 mg/l, Fish, 96.00 Hours

Persistence and degradability Not available.

Material name: CF358A MSDs us

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. Transport Information

Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory Information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders

under TSCA.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous chemical No

No

Other 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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

State regulations

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

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF Listed: February 21, 2003 Carcinogenic.

RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS

1333-86-4)

TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES Listed: September 2, 2011 Carcinogenic.

OF RESPIRABLE SIZE) (CAS 13463-67-7)

US - New Jersey RTK - Substances: Listed substance

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

US. Massachusetts RTK - Substance List

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

US. Pennsylvania RTK - Hazardous Substances

Titanium dioxide (CAS 13463-67-7) Listed.

US. Rhode Island RTK

Carbon black (CAS 1333-86-4)

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16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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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

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