

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name HP Color LaserJet CE410A-X-XD Black Print Cartridge

Version # 01

Issue date 26-Jun-2013

Product use This product is a black toner preparation that is used in HP LaserJet Pro 300 color M351/ HF

LaserJet Pro 400 color M451/ HP LaserJet Pro 300 color MFP M375/ HP LaserJet Pro 400 color MFP

M475 series printers.

Company identification Hewlett-Packard Company

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United States

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Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 760-710-0048 HP Customer Care Line

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(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 hazards 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.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Carbon black	1333-86-4	<10
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 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.

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.

CO2, water, or dry chemical

Extinguishing media

Suitable extinguishing

media

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)			

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

Components	Туре	Value
Carbon black (CAS	PEL	3.5 mg/m3
1333-86-4)		

US. NIOSH: Pocket Guide to Chemical Hazards

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

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A			
Components	Туре	Value	
Carbon black (CAS	TWA	3.5 mg/m3	
1333-86-4)			

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 controlsUse in a well ventilated area.

Personal protective equipment

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

9. Physical & Chemical Properties

AppearanceFine powderPhysical stateSolid.FormsolidColorBlack.

Odor Slight plastic odor
pH 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 gravity1 - 1.2 (H2O = 1)Flash pointNot applicableViscosityNot applicablePercent volatile0 % estimated

Softening point 176 - 266 °F (80 - 130 °C)

VOC Not available

Other information No information available

Other data

Decomposition $> 392 \, ^{\circ}\text{F} \, (> 200 \, ^{\circ}\text{C})$

temperature

10. Chemical Stability & Reactivity Information

Chemical stabilityStable under normal storage conditions.Conditions to avoidImaging 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

Components Species Test Results

Amorphous silica (CAS 7631-86-9)

Acute

Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

Test Results Components **Species**

Carbon black (CAS 1333-86-4)

Acute Oral

LD50 > 8000 mg/kgRat

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. 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 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 effects Not 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

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Product		Species	Test Results
CE410A-X-XD			
Fish	LC50	Fish	> 100 mg/l, 96 Hours
Ecotoxicity	LC50: > 100 mg/l, Fish, 96.00 Hours		
Persistence and degradability	Not available.		

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)

Nο

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 No

Hazardous chemical

Other regulationsAll 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)

US - New Jersey RTK - Substances: Listed substance

Carbon black (CAS 1333-86-4) Listed.

US. Massachusetts RTK - Substance List

Carbon black (CAS 1333-86-4)

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Carbon black (CAS 1333-86-4)

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 26-Jun-2013

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Hazards Identification: Other hazards

Physical & Chemical Properties: Multiple Properties

Material name: CE410A-X-XD MSDs us

Manufacturer information Hewlett-Packard Company

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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