

SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CF410A-X-XC Black Print Cartridge

Other means of identification

Recommended use This product is a black toner preparation that is used in HP Color LaserJet Pro M452, HP Color

LaserJet Pro MFP M477, HP Color LaserJet Pro MFP M377 series printers.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

HP Inc.

1501 Page Mill Road Palo Alto, CA 94304-1112

United States

Telephone 650-857-5020

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048

HP Inc. 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

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

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot 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. None of the other ingredients in this preparation are classified as

carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Supplemental information This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

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

Material name: CF410A-X-XC SDS US

13773 Version #: 05 Revision date: 20-Jan-2019 Issue date: 16-Oct-2015

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

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

CO2, water, or dry chemical

Specific hazards arising from

the chemical

Like most organic material in powder form, toner can form explosive dust-air mixtures when finely

dispersed in air.
Not available.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

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

Specific methods None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Minimize dust generation and accumulation.

Methods and materials for containment and cleaning up

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.

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 at room temperature. Store away from strong oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

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

 Components
 Type
 Value

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

US. ACGIH Threshold Limit Values

ComponentsTypeValueFormCarbon black (CASTWA3 mg/m3Inhalable fraction.1333-86-4)

US. NIOSH: Pocket Guide to Chemical Hazards

Components Type Value

Carbon black (CAS 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: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10

mg/m3

TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective 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 stateSolid.FormsolidColorBlack.

Odor Slight plastic odor
Odor threshold Not available.

pH Not applicable

Melting point/freezing point Not available.

Initial boiling point and boiling Not applicable

range

Flash point Not applicable
Evaporation rate Not applicable
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower Not fl

(%)

Not flammable

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not applicable

Vapor density Not applicable

Solubility(ies)

Solubility (water) Negligible in water. Partially soluble in toluene and xylene.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot applicableDecomposition temperature> 392 °F (> 200 °C)ViscosityNot applicable

Other information

Oxidizing properties No information available.

Percent volatile 0 % estimated

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

Specific gravity 1 - 1.2 (H2O = 1)

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

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Contact with skin may result in mild irritation. Eye contact Contact with eyes may result in mild irritation. Ingestion Ingestion is not a likely route of exposure.

Not available.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Based on available data, the classification criteria are not met. Acute toxicity

Test Results Components **Species**

Carbon black (CAS 1333-86-4)

<u>Acute</u> Oral

LD50

Rat > 10000 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Skin sensitization

Germ cell mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

> 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 ingredients have been classified as carcinogens

according to EU, IARC, MAK, NTP, OSHA or ACGIH.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity -

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

Based on available data, the classification criteria are not met.

repeated exposure

Aspiration hazard Based on available data, the classification criteria are not met.

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological information

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

Product Species Test Results

CF410A-X-XC

Aquatic

Fish LC50 Fish > 100 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

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

under TSCA.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Not listed.

SARA 311/312 Hazardous No

chemical

Other federal regulations

Clean Air Act (CAA) Section 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 - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES Listed: February 21, 2003 OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS 1333-86-4)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

Carbon black (CAS 1333-86-4)

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 date16-Oct-2015Revision date20-Jan-2019

Version # 05

Other information This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

Disclaimer This Safety Data Sheet document is provided without charge to customers of HP. Data is the most

current known to HP 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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compatible supplies in our recycling programs.

Revision information Fire-fighting measures: Specific hazards arising from the chemical

Accidental release measures: Methods and materials for containment and cleaning up

Toxicological information: Eye contact Toxicological information: Ingestion Toxicological information: Inhalation Toxicological information: Skin contact

Other information, including date of preparation or last revision: Disclaimer

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