

SAFETY DATA SHEET

1. Identification

Important information *** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any

unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action

being taken by HP. ***

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

Other means of identification None

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.

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United States

Telephone 650-857-1501

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

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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.

May form explosible dust-air mixture if dispersed.

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

3. Composition/information on ingredients

Mixtures

Material name: CF410A-X-XC-XH-JC SDS US

13773 Version #: 08 Revision date: 07-May-2025 Issue date: 20-Sep-2021

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

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.

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

physician.

Most important

symptoms/effects, acute and

delayed

Not available.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

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.

CO2, water, or dry chemical

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

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

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

US. OSHA Table Z-3 (29 CFR 1910.1000) Components	Туре	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

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US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form	
		0.8 mg/m3		
US. ACGIH Threshold Limit Value	es			
Components	Type	Value	Form	

Carbon black (CAS 1333-86-4)

US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended Components Type Value

Amorphous silica (CAS IDLH 3000 mg/m3

TWA

7631-86-9)

US. NIOSH: Pocket Guide to Chemical Hazards

ComponentsTypeValueAmorphous silica (CAS 7631-86-9)TWA 6 mg/m3Carbon 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: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV):

3 mg/m3

Inhalable fraction.

None

Appropriate engineering Use in a well ventilated area.

controls No exposure limits noted for ingredient(s).

Individual protection measures, such as personal protective equipment

Eye/face protection No personal eye/face protective equipment required under normal conditions of use.

Skin protection

Hand protection No personal hand protective equipment required under normal conditions of use.

Other Not available.

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

Thermal hazards Not available.

9. Physical and chemical properties

Appearance Fine powder
Physical state Solid.

Form solid
Color Black.

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

Explosive limit - lower (%) Not flammable

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Explosive limit - upper (%)Not available.Vapor densityNot applicableVapor densityNot 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.

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 contactContact with skin may result in mild irritation.Eye contactContact with eyes may result in mild irritation.IngestionIngestion is not a likely route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

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

Components Species Test Results

Carbon black (CAS 1333-86-4)

<u>Acute</u> Oral

LD50 Rat > 10000 mg/kg

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

irritation

Respiratory or skin sensitization

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

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

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

Material name: CF410A-X-XC-XH-JC

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

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Carbon black (CAS 1333-86-4) Known To Be Human Carcinogen.

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

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

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

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

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

LC50: >100 mg/l, Fish, 96.00 h **Ecotoxicity**

Product		Species	Test Results
CF410A-X-XC-XH-JC			
Aquatic			
Algae	ErC50	Algae	> 100 mg/l, 72 h
Crustacea	EC50	Crustacea	> 100 mg/l, 48 h
Fish	LC50	Fish	> 100 mg/l, 96 h
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	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/recvcle.

14. Transport information

DOT

Not available. **UN** number **UN** proper shipping name Not Regulated

Transport hazard class(es)

Not available. Class

Subsidiary risk

Packing group Not available.

Environmental hazards

Marine pollutant

Special precautions for user Not available.

IATA

UN number Not available.

Material name: CF410A-X-XC-XH-JC

UN proper shipping name Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk

Packing group Not available.

Environmental hazards No

Special precautions for user Not available.

IMDG

UN number Not available. **UN proper shipping name** Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk -

Packing group Not available.

Transport hazard class(es)

Marine pollutant

No

EmS Not available. Special precautions for user Not available.

ADR

UN number Not available. **UN proper shipping name** Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk -

Hazard No. (ADR) Not available.

Tunnel restriction code Not available.

Packing group Not available.

Environmental hazards No

Special precautions for user Not available.

Further information Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

15. Regulatory information

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

under TSCA

Toxic Substances Control Act (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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

No intentionally added HAP substances.

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

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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 date20-Sep-2021Revision date07-May-2025

Version # 08

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

CFR 1910.1200).

Disclaimer

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Revision information

Exposure controls/personal protection: Appropriate engineering controls

Material name: CF410A-X-XC-XH-JC SDS US

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

Acute Tox. Acute toxicity

Aquatic Acute Short-term (acute) aquatic hazard
Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard Carc. Carcinogenicity

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)

Eye Dam. Serious eye damage

Eye Irrit.Eye IrritationFlam. Liq.Flammable liquidsFlam. Sol.Flammable solids

Lact. Effects on or via lactation

Muta. Germ cell mutagenicity

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

Ox. Liq. Oxidising liquids

Ozone Hazardous to the ozone layer
PEL Permissible Exposure Limit

Press. Gas Gases under pressure

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

Repr.Reproductive toxicityResp. Sens.Respiratory sensitization

SARA Superfund Amendments and Reauthorization Act of 1986

Skin Corr.Skin corrosionSkin Irrit.Skin irritationSkin Sens.Skin sensitization

STEL Short-Term Exposure Limit

STOT RESpecific target organ toxicity - repeated exposureSTOT SESpecific target organ toxicity - single exposureTCLPToxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act