

SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CF412A-X-XC Yellow Print Cartridge

Other means of identification Not available.

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

LaserJet Pro MFP M477 series printers.

Recommended restrictions

Company identification

None known. HP

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United States

Telephone 650-857-5020

HP 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. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

Not available. **Hazard statement**

Precautionary statement

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

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
Pigment	Pigment	Trade Secret	<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.

Material name: CF412A-X-XC SDS US 1/6 **Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Eye contactDo 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

na

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for firefighters

Not available.

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

Not available.

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. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value

 Amorphous silica (CAS
 TWA
 6 mg/m3

7631-86-9)

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)

UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust)

Appropriate engineering controls

Use in a well ventilated area.

Material name: CF412A-X-XC

13779 Version #: 02 Revision date: 22-Oct-2015 Issue date: 16-Oct-2015

Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection**

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 state** Solid. Color Yellow

Odor Slight plastic odor **Odor threshold** Not available. рH Not applicable Melting point/freezing point Not available. Initial boiling point and Not applicable

boiling range

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

Flammability limit - lower Not flammable

(%)

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressure Not applicable

Solubility(ies)

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

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable **Decomposition temperature** > 392 °F (> 200 °C)

Viscosity Not applicable

Other information

Percent volatile 0 % estimated

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

Specific gravity 1 - 1.2

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

Carbon monoxide and carbon dioxide.

products

Material name: CF412A-X-XC SDS US

11. Toxicological information

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.

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

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

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

CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.Specific target organ toxicityBased on available data, the classification criteria are not met.

- 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.

Components Species Test Results

Amorphous silica (CAS 7631-86-9)

Acute Oral

LD50 Mouse > 15000 mg/kg

Species

Rat > 22500 mg/kg

12. Ecological information

Ecotoxicity

Droduct

Product		Species	iest kesuits	
CF412A-X-XC				_
Aquatic				
Fish	LC50	Fish	> 100 mg/l, 96 Hours	
Persistence and degradability Not available.		ble.		
Bioaccumulative potent	ial Not availa	ble.		
Mobility in soil	Not availa	ble.		
Other adverse effects	Not availa	ble.		

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,

Tost Posults

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.

Material name: CF412A-X-XC SDS US

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 listed.

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 No

Hazardous chemical

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Regulatory informationAll 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 date 16-Oct-2015 **Revision date** 22-Oct-2015

Version # 02

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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.

Manufacturer information HF

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Material name: CF412A-X-XC SDS US

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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