

# SAFETY DATA SHEET

1. Identification

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

Other means of identification Nor

Recommended use This product is a yellow 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** 

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HP Inc. health effects line

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Line

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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)

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

Material name: CF412A-X-XC SDS US

13779 Version #: 05 Revision date: 03-Sep-2018 Issue date: 16-Oct-2015

4. First-aid measures

Inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation Skin contact

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eve contact

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

CO2, water, or dry chemical 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.

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. NIOSH: Pocket Guide to Chemical Hazards**

Amorphous silica (CAS

Type **TWA** 

6 mg/m3

Value

**Biological limit values** 

Components

7631-86-9)

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.

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## 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 state Solid.
Form solid
Color Yellow

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 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 N

(n-octanol/water)

Not available.

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

## 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

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## 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.

Skin corrosion/irritation

Based 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 sensitization**Based 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.

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

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### 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 -**Based 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.

# 12. Ecological information

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

Product Species Test Results

CF412A-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.

### 13. Disposal considerations

Other adverse effects

**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.

Not available.

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.

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# 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.

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

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

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)

Immediate Hazard - No **Hazard categories** 

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No

Not regulated.

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

**US** state regulations Not Listed

All chemical substances in this HP product have been notified or are exempt from notification Regulatory information

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

16-Oct-2015 Issue date 03-Sep-2018 **Revision date** 

Version #

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

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Material name: CF412A-X-XC

**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

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