SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name or designation of the mixture
HP Color LaserJet CF540A-X Black Print Cartridge

Registration number
- 

Synonyms
None.

Issue date
04-Oct-2017

Version number
01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
This product is a black toner preparation that is used in HP Color LaserJet Pro M254/HP Color LaserJet Pro MFP M280/HP Color LaserJet Pro MFP M281 series printers.

Uses advised against
None known.

1.3. Details of the supplier of the safety data sheet

HP Inc Czech Republic s. r. o.
Za Brumlovkou 5/1559
140 00 Prague 4
Czech Republic

Telephone
+420 26130 7111

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

1.4 Emergency telephone number
+420 224 919 293

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended
Contains:
Amorphous silica, Carbon black, Styrene acrylate copolymer, Wax

Hazard pictograms
None.

Signal word
None.

Hazard statements
The mixture does not meet the criteria for classification.

Precautionary statements
Prevention
Not available.
Response
Not available.
Storage
Not available.
Disposal
Not available.

Supplemental label information
None.
This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene acrylate copolymer</td>
<td>&lt;85</td>
<td>Trade Secret</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Carbon black</td>
<td>&lt;10</td>
<td>1333-86-4, 215-609-9</td>
<td>01-2119384822-32-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Wax</td>
<td>&lt;10</td>
<td>Trade Secret</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>&lt;3</td>
<td>7631-86-9, 231-545-4</td>
<td>01-2119379499-16-xxxx</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

Not available.

4.3. Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- **Suitable extinguishing media**: CO2, water, or dry chemical
- **Unsuitable extinguishing media**: None known.

5.2. Special hazards arising from the substance or mixture

Not available.

5.3. Advice for firefighters

- **Special protective equipment for firefighters**: Not available.
- **Special fire fighting procedures**: If fire occurs in the printer, treat as an electrical fire.

Specific methods

None established.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Minimize dust generation and accumulation.

For emergency responders
Not available.

6.2. Environmental precautions
Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

6.3. Methods and material for containment and cleaning up
Not available.

6.4. Reference to other sections
Not available.

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities
Not available.

7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Czech Republic. OELs. Government Decree 361 Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4) TWA</td>
<td>2 mg/m3</td>
<td>Dust.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures
Not available.

Derived no effect levels (DNELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4) Consumers Inhalation</td>
<td>1.75 mg/m3</td>
<td>Local long term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (CAS 1333-86-4) Inhalation</td>
<td>0.06 mg/m3</td>
<td>Systemic long term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (CAS 1333-86-4) Workers Inhalation</td>
<td>2 mg/m3</td>
<td>Local long term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (CAS 1333-86-4) Inhalation</td>
<td>1 mg/m3</td>
<td>Systemic long term</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Predicted no effect concentrations (PNECs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4) Not applicable</td>
<td>Freshwater</td>
<td>5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (CAS 1333-86-4) Not applicable</td>
<td>Marine water</td>
<td>5 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

8.2. Exposure controls

Appropriate engineering controls
Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

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

Eye/face protection
Not available.

Skin protection
- Hand protection
Not available.
- Other
Not available.
SECTION 9: Physical and chemical properties

9.1. Information on basic 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 range: Not applicable
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability (solid, gas): Not available

Flammability limit - lower (%): Not flammable
Flammability 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-octanol/water): Not available.
Auto-ignition temperature: Not applicable
Decomposition temperature: > 392 °F (> 200 °C)
Viscosity: Not applicable
Explosive properties: Not available
Oxidizing properties: No information available

9.2. Other information

Percent volatile: 0 % estimated
Softening point: 176 - 266 °F (80 - 130 °C)
Specific gravity: 1 - 1.2

SECTION 10: Stability and reactivity

10.1. Reactivity: Not available
10.2. Chemical stability: Stable under normal storage conditions
10.3. Possibility of hazardous reactions: Will not occur
10.4. Conditions to avoid: Imaging Drum: Exposure to light
10.5. Incompatible materials: Strong oxidizers
10.6. Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

General information: Not available

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.

Symptoms
Not available.

11.1. Information on toxicological effects

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

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 10000 mg/kg</td>
</tr>
</tbody>
</table>

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 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
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.

IARC Monographs. Overall Evaluation of Carcinogenicity
Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

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

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

Mixture versus substance information
Not available.

Other 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.

SECTION 12: Ecological information

12.1. Toxicity
LC50: > 100 mg/l, Fish, 96.00 Hours

Product
CF540A-X

Aquatic

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae</td>
<td>ErC50</td>
<td>Algae</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 100 mg/l, 72 Hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Crustacea</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 100 mg/l, 48 Hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 100 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Not available.

12.3. Bioaccumulative potential
Not available.

Partition coefficient
n-octanol/water (log Kow)
Not available.

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
Not available.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
Not available.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available.
Contaminated packaging Not available.
EU waste code Not available.
Disposal methods/information 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.

SECTION 14: Transport information

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
  Not listed.

Authorizations
- Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization
  Not listed.

Restrictions on use
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at
  work
  Not regulated.

Other EU regulations
- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Not listed.
- Other regulations
  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.
- Other information
  This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830.
  Classification according to Regulation (EC) No 1272/2008 as amended.
- National regulations
  Not available.
- 15.2. Chemical safety assessment
  See attached SUMI or GEIS document, if applicable.
SECTION 16: Other information

References


Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

None.

Revision information

None.

Training information

Follow training instructions when handling this material.

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.

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