



SAFETY DATA SHEET

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 CE410A-X-XC-XD-L Black Print Cartridge

Registration number -

Synonyms None.

Issue date 02-Dec-2014

Version number 04

Revision date 06-Sep-2018

Supersedes date 19-Sep-2015

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 LaserJet Pro 300 color M351/ HP LaserJet Pro 400 color M451/ HP LaserJet Pro 300 color MFP M375/ HP LaserJet Pro 400 color MFP M475 series printers.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

HPCP - Computing and Printing Portugal, Unipessoal, Lda.
Quinta da Fonte, Pt. Ground Floor
Paco de Arcos, Portugal 2774-528

Telephone +351 21 482 85

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 112

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.

2.3. Other hazards

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

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|----------------------------|-----|------------------------|------------------------|-----------|-------|
| Styrene acrylate copolymer | <85 | Trade Secret | - | - | |
| Classification: | - | - | | | |
| Carbon black | <10 | 1333-86-4 215-609-9 | 01-2119384822-32-XXXX | - | |
| Classification: | - | | | | |
| Wax | <10 | Trade Secret | - | - | |
| Classification: | - | - | | | |
| Amorphous silica | <3 | 7631-86-9 231-545-4 | 01-2119379499-16-xxxx | - | |
| Classification: | - | | | | |

SECTION 4: First aid measures

General information Not available.

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

General fire hazards Not available.

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

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 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.

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 Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

| Components | Type | Value | Form |
|------------------------------|------|-----------------------|-------|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m ³ | Fume. |

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

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs)

| Components | Type | Route | Value | Form |
|------------------------------|-----------|------------|------------------------|--------------------|
| Carbon black (CAS 1333-86-4) | Consumers | Inhalation | 1.75 mg/m ³ | Local long term |
| | | Inhalation | 0.06 mg/m ³ | Systemic long term |
| | Workers | Inhalation | 2 mg/m ³ | Local long term |
| | | Inhalation | 1 mg/m ³ | Systemic long term |

Predicted no effect concentrations (PNECs)

| Components | Type | Route | Value | Form |
|------------------------------|----------------|--------------|--------|------|
| Carbon black (CAS 1333-86-4) | Not applicable | Freshwater | 5 mg/l | |
| | | Marine water | 5 mg/l | |

Exposure guidelines , 5 mg/m³ (Respirable Fraction)

, 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. |
| Respiratory protection | Not available. |
| Thermal hazards | Not available. |
| Hygiene measures | Not available. |
| Environmental exposure controls | 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. |
| Upper/lower flammability or explosive limits | |
| 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 (H2O = 1) |

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 | Species | Test Results |
|--|--|---------------|
| Carbon black (CAS 1333-86-4) | | |
| Acute | | |
| 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 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. | |

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.

| | |
|---|---|
| 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 | Species | Test Results |
|--|---|----------------------|
| CE410A-X-XC-XD-L | | |
| Aquatic | | |
| Fish | LC50 Fish | > 100 mg/l, 96 Hours |
| 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.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

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 | <p>Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).</p> <p>Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.</p> <p>Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).</p> |
| Information on evaluation method leading to the classification of mixture | <p>The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.</p> |
| Full text of any H-statements not written out in full under Sections 2 to 15 | <p>None.</p> |
| Revision information | <p>SECTION 5: Firefighting measures: 5.2. Special hazards arising from the substance or mixture SECTION 6: Accidental release measures: 6.3. Methods and material for containment and cleaning up SECTION 11: Toxicological information: Eye contact SECTION 11: Toxicological information: Ingestion SECTION 11: Toxicological information: Inhalation SECTION 11: Toxicological information: Skin contact SECTION 15: Regulatory information: Other information SECTION 15: Regulatory information: National regulations SECTION 16: Other information: Disclaimer SECTION 16: Other information: Information on evaluation method leading to the classification of mixture SECTION 16: Other information: References SECTION 16: Other information: Training information</p> |
| Training information | <p>Follow training instructions when handling this material.</p> |
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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 |