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 W2310A 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 M155a, M155nw, Pro MFP M182n, Pro MFP M182nw, Pro MFP M183fw series printers.

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States
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

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
Hazard symbol
None.

Signal word
None.

Hazard statement
Not available.

Precautionary statement
Prevention
Not available.

Response
Not available.

Storage
Not available.

Disposal
Not 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.

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

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene acrylate copolymer</td>
<td>Trade Secret</td>
<td>&lt;85</td>
<td></td>
</tr>
</tbody>
</table>
### Chemical names

<table>
<thead>
<tr>
<th>CAS number</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4*</td>
<td>Black Pigment*</td>
<td>&lt;10</td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Wax</td>
<td>&lt;10</td>
<td></td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Amorphous silica</td>
<td>&lt;3</td>
<td></td>
</tr>
</tbody>
</table>

### 4. First-aid measures

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Move person to fresh air immediately. If irritation persists, consult a physician.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.</td>
<td></td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.</td>
<td></td>
</tr>
</tbody>
</table>

**Most important symptoms/effects, acute and delayed**

### 5. Fire-fighting measures

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable extinguishing media</strong></td>
<td>CO2, water, or dry chemical</td>
<td></td>
</tr>
<tr>
<td><strong>Unsuitable extinguishing media</strong></td>
<td>None known.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific hazards arising from the chemical</strong></td>
<td>Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.</td>
<td></td>
</tr>
<tr>
<td><strong>Special protective equipment and precautions for firefighters</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Fire fighting equipment/instructions</strong></td>
<td>If fire occurs in the printer, treat as an electrical fire.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific methods</strong></td>
<td>None established.</td>
<td></td>
</tr>
</tbody>
</table>

### 6. Accidental release measures

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personal precautions, protective equipment and emergency procedures</strong></td>
<td>Minimize dust generation and accumulation.</td>
<td></td>
</tr>
<tr>
<td><strong>Methods and materials for containment and cleaning up</strong></td>
<td>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. Slowly vacuum or sweep the material into a bag or other sealed container.</td>
<td></td>
</tr>
<tr>
<td><strong>Environmental precautions</strong></td>
<td>Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.</td>
<td></td>
</tr>
</tbody>
</table>

### 7. Handling and storage

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Precautions for safe handling</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Conditions for safe storage, including any incompatibilities</strong></td>
<td>Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.</td>
<td></td>
</tr>
</tbody>
</table>

### 8. Exposure controls/personal protection

#### Occupational exposure limits

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>Black Pigment (CAS 1333-86-4)</td>
<td>PEL</td>
<td>3.5 mg/m3</td>
</tr>
</tbody>
</table>

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>US. ACGIH Threshold Limit Values</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
<td>Form</td>
</tr>
<tr>
<td>Black Pigment (CAS 1333-86-4)</td>
<td>TWA</td>
<td>3 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>
### US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica (CAS 7631-86-9)</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Black Pigment (CAS 1333-86-4)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
</tbody>
</table>

**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)

**Appropriate engineering controls**
Use in a well ventilated area.

**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**
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.
- **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-octanol/water)**
  - Not available.
- **Auto-ignition temperature**
  - Not applicable
- **Decomposition temperature**
  - > 392 °F (> 200 °C)
**Viscosity**
Not 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 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 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 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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2310A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Based on available data, the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
</tbody>
</table>

**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)

**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 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.
Black Pigment (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

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 - 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.

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
<table>
<thead>
<tr>
<th>Product</th>
<th>SPECIES</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2310A</td>
<td>Algae</td>
<td>ErC50, Algae &gt; 100 mg/l, 72 Hours</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50, Crustacea &gt; 100 mg/l, 48 Hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50, Fish &gt; 100 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

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/recycle.

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.

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 chemical
No
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 (SDWA)
Not regulated.

US state regulations

California Proposition 65

California Proposition 65 - CRT: Listed date/Carcinogenic substance
Black Pigment (CAS 1333-86-4) Listed: February 21, 2003

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Black Pigment (CAS 1333-86-4)

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 date 25-Feb-2020
Revision date 03-Jul-2020
Version # 02

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 countries.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.
### Explanation of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>COC</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act (aka SARA)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>REC</td>
<td>Recommended</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act of 1986</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>