1. Identification

Product identifier: HP Color LaserJet CE321A Cyan Print Cartridge

Other means of identification: None.

Recommended use: This product is a cyan toner preparation that is used in HP LaserJet Pro CM1415, CP1525 series printers.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States

Telephone: 650-857-5020

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): None known.

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>
<tr>
<td>Pigment</td>
<td>Trade Secret</td>
<td>&lt;10</td>
<td></td>
</tr>
<tr>
<td>Wax</td>
<td>Wax</td>
<td>&lt;10</td>
<td></td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>&lt;3</td>
</tr>
</tbody>
</table>
4. 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.

Most important symptoms/effects, acute and delayed: Not available.

5. Fire-fighting measures

Suitable extinguishing media: CO2, water, or dry chemical

Unsuitable extinguishing media: 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.

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: 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica (CAS 7631-86-9)</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>
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.

**9. Physical and chemical properties**

- **Appearance** Fine powder
- **Physical state** Solid.
- **Form** solid
- **Color** Cyan
- **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

**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** Not available.

**Viscosity** Not applicable

**Other information**

- **Oxidizing properties** No information available.
- **Percent volatile** 0 % estimated
- **Softening point** 176 - 266 °F (80 - 130 °C)
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.
- **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 sensitization**: Based on available data, the classification criteria are not met.
- **Skin sensitization**: Not sensitizing.
- **Germ cell mutagenicity**: Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
- **Carcinogenicity**: Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity
- Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
- Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

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 - 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>CE321A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Fish</td>
<td>LC50 Fish</td>
<td>&gt; 100 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>
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.

- 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.
  - Not regulated.

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 Hazardous chemical
  - No

Other federal regulations

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

- US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
  - TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)
    - Listed: September 2, 2011
  - US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
    - Titanium dioxide (CAS 13463-67-7)

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.
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.

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