



SAFETY DATA SHEET

1. Identification of the chemical and information about the manufacturer or supplier

1.1 Identification of the chemical products

1.1.1 Technical name HP Color LaserJet CE320A-AD Black Print Cartridge

Other means of identification None.

1.1.2 Recommended use of the chemical and restrictions on use

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

Limitations on use None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer

ZAO Hewlett-Packard A.O.
Highway Leningradskoe, House 16A, Building 3,
125171, Moscow

Telephone 7 495 797-3500

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

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

Classification according to GOST 12.1.007-76 Not available.

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word None.

2.2.2 Symbols None.

2.2.3 Hazard statement Not available.

Precautionary statement

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Other hazards

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 None.

3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC) CE320A-AD

3.1.2 Chemical formula UVCB (1333-86-4), UVCB (1333-86-4), O2Si (7631-86-9), O2Si (7631-86-9)

3.1.3 General description of the composition (taking into account the brand assortment; preparation method) Not applicable.

3.2 Components

| Components | Concentration by weight (%) | Hygienic standards in the working area | | | CAS-No. | EC No. |
|----------------------------|-----------------------------|--|-------------------------|-----------------------|--------------|-----------|
| | | MAC, mg/m ³ | TSEL, mg/m ³ | Hazard classification | | |
| Styrene acrylate copolymer | <85 | | | | Trade Secret | - |
| Wax | <10 | | | | Trade Secret | - |
| Carbon black | <6 | | | | 1333-86-4 | 215-609-9 |
| Amorphous silica | <2 | 3 | 1 | 3 | 7631-86-9 | 231-545-4 |

4. First-aid measures

4.1. Observed symptoms

- 4.1.1 In case of exposure via inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- 4.1.2 In contact with skin** Contact with skin may result in mild irritation.
- 4.1.3 In contact with eyes** Contact with eyes may result in mild irritation.
- 4.1.4 In case of exposure via ingestion** Ingestion is not a likely route of exposure.

4.2 First-aid measures to be provided to victims

- 4.2.1 In case of exposure via inhalation** Move person to fresh air immediately. If irritation persists, consult a physician.
- 4.2.2 In contact with skin** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
- 4.2.3 In contact with eyes** 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.
- 4.2.4 In case of exposure via ingestion** Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
- 4.2.5 Contraindications** Not available.

5. Fire-fighting and explosion safety measures and means

- 5.1 General characteristics of fire-explosion properties** Not available.
- 5.2 Fire-explosion indicators** Not available.
- 5.3 Combustion and/or thermal destruction products and hazards arising from these** Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
- 5.4 Recommended extinguishing media** CO₂, water, or dry chemical
- 5.5 Forbidden extinguishing media** None known.
- 5.6 Special protective equipment for firefighters** Not available.
- 5.7 Specific extinguishing methods** None established.
- Special fire fighting procedures** If fire occurs in the printer, treat as an electrical fire.

6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

- 6.1.1 General required actions in case of an accident or emergency** Minimize dust generation and accumulation.
- 6.1.2 Personal protection equipment in case of the accident** Not available.

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes Not available.

6.2.2 Actions in case of fire Not available.

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. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

7.1.1 Technical safety measures Not available.

7.1.2 Environmental protection measures Not available.

7.1.3 Recommended safe handling and transportation advice 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 Chemical storage requirements

7.2.1 Terms and conditions for safe storage Not available.

7.2.2 Packaging Not available.

7.3 Safety measures and storage requirements at domestic use Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

8. Equipment for monitoring exposure and personal protective equipment

8.1 Parameters of the working area that require monitoring No exposure limits noted for ingredient(s).

Occupational exposure limits

Russian Federation. Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

| Components | Type | Value | Form |
|----------------------------------|---------|---------|----------|
| Amorphous silica (CAS 7631-86-9) | Ceiling | 3 mg/m3 | Aerosol. |
| | TWA | 1 mg/m3 | Aerosol. |

8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration
, 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)

Appropriate engineering controls Use in a well ventilated area.

8.3 Worker personal protective equipment

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

8.3.2 Respiratory protection Not available.

8.3.3 Protective equipment

Eye/face protection Not available.

Hand protection Not available.

Other Not available.

Thermal hazards Not available.

8.3.4 Personal protection equipment in case of domestic use Not applicable.

9. Physical and chemical properties

| | |
|--|---|
| 9.1 Physical appearance | Fine powder |
| Physical state | Solid. |
| Form | solid |
| Color | Black. |
| Odor | Slight plastic odor |
| Odor threshold | Not available. |
| 9.2 Parameters characterizing basic properties of the product | |
| pH | Not applicable |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | 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 |
| Viscosity | Not applicable |
| Solubility(ies) | |
| Solubility (water) | Negligible in water. Partially soluble in toluene and xylene. |
| Partition coefficient (n-octanol/water) | Not available. |
| Other data | |
| Evaporation rate | Not applicable |
| 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

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

11. Toxicological information

| | |
|--|---|
| 11.1 General exposure characteristics | Not available. |
| 11.2 Routes of exposure | Not available. |
| 11.3 Affected/target organs, tissues and systems of humans | |
| 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. |
| 11.4 Information on health hazards in case of direct exposure to the product and its effect | |
| Effect on upper respiratory tract irritation | Not available. |

Respiratory or skin sensitization

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization 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.

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

11.5 Information on long-term hazardous health effects

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

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

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

Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Based on available data, the classification criteria are not met.

Cumulativeness Not available.

Chronic effects Not available.

11.6 Acute toxicity data

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 |

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. Environmental impact information

12.1 General description of the impact on the environment Not available.

12.2 Routes of exposure to environment Not available.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards Not available.

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

| Product | Species | Test Results |
|----------------|-----------|----------------------|
| CE320A-AD | | |
| Aquatic | | |
| Fish | LC50 Fish | > 100 mg/l, 96 Hours |

12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

13. Recommendations for waste (residues) disposal

13.1 Safety precautions when handling the waste generated during use, storage, transportation

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>.

13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging

Not available.

13.3 Recommendation on the waste disposal generated during its domestic use

Not available.

14. Transport information

Further information

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

15. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

15.2 International Conventions and Agreements

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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

16.1 Information on revision of the SDS

Issue date 27-Jun-2015

Revision date 06-Sep-2018

Version # 03

Previous SDS number Not applicable.

Revision information Fire-fighting and explosion safety measures and means: 5.3 Combustion and/or thermal destruction products and hazards arising from these
Accident and emergency prevention and response measures and their consequences: 6.2.1
Procedures in case of leaks, spills, splashes
Accident and emergency prevention and response measures and their consequences: Methods and materials for containment and cleaning up
Other information: Disclaimer

16.2 List of references used in compiling the safety data sheet

Not available.

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.

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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 |