



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 C4149A 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 Color LaserJet 8500/8550/8550mfp 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 None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

Supplemental information None.

3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC) C4149A

3.1.2 Chemical formula Fe₃O₄ (1317-61-9)

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 | | |
| Iron oxide | <50 | | | 1317-61-9 | 215-277-5 |
| Styrene acrylate copolymer | <50 | | | Trade Secret | - |

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 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 Not available.

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 Not available.

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).

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)

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

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|---|---|
| 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 | 212 - 302 °F (100 - 150 °C) 212 - 302 °F (100 - 150 °C) |

10. Stability and reactivity

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|---|---|
| 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 | Not available. |
| Possibility of hazardous reactions | Will not occur. |
| Incompatible materials | Strong oxidizers |

11. Toxicological information

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|---|---|
| 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 | Not available. |
| Specific target organ toxicity - repeated exposure | Not available. |
| 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 | Not available. |
| Skin sensitization | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| Serious eye damage/eye irritation | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| 11.5 Information on long-term hazardous health effects | |
| Carcinogenicity | Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California). |
| Reproductive toxicity | Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany). |

| | |
|---------------------------------|---|
| Mutagenicity | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) |
| Cumulativeness | Not available. |
| Chronic effects | No information available. |
| 11.6 Acute toxicity data | Not available. |
| 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

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|---|---|---------------------|-----------------------|
| 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 | LL50: > 1000 mg/l, Rainbow Trout, 96.00 Hours | | |
| Product | Species | Test Results | |
| C4149A | | | |
| Aquatic | | | |
| Fish | LL50 | Rainbow Trout | > 1000 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

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| 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

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|-------------------------------------|---|
| DOT | Not regulated as dangerous goods. |
| IATA | |
| UN number | UN2807 |
| UN proper shipping name | Magnetized Material |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | No. |
| Special precautions for user | Not available. |
| IMDG | Not regulated as dangerous goods. |
| ADR | Not regulated as dangerous goods. |
| Further information | 7or more of these cartridges shipped together in a single package (e.g., box, container), by air, are regulated as a magnetized material. These requirements do not apply to single or dual pack cartridges contained in an original HP package and shrink wrapped on a pallet for shipment by air. |

15. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

Federation

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 17-Sep-2015

Revision date 09-Nov-2018

Version # 02

Previous SDS number Not applicable.

Revision information 1. Product and Company Identification: Product and Company Identification
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
Transport information: Further information
Other information: Disclaimer

16.2 List of references used in compiling the safety data sheet

Not available.

Disclaimer

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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

| | |
|---------------|---|
| 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 |