# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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|---|---|
| **Identification of the preparation** | HP Color LaserJetC9720ABlack Print Cartridge |
| **Use of the preparation** | This product is a black toner preparation that is used in HP Color LaserJet 4600/4610/4650 series printers. |
| **Manufacturer information** | Hewlett-Packard Company<br>11311 Chinden Boulevard<br>Boise, ID 83714 USA |
| **Hewlett-Packard health effects line** | |
| **(Toll-free within the US)** | 1-800-457-4209 |
| **(Direct)** | 1-503-494-7199 |
| **General information telephone number** | |
| **HP Customer Care Line** | 1-800-474-6836 |
| **(Toll-free)** | 1-800-474-6836 |
| **(Direct)** | 1-208-323-2551 |
| **Date prepared** | Feb 23, 2006 |
| **MSDS number** | 80418 |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Component/substance | CAS number | % by weight |
|---|---|---|
| Styrene acrylate copolymer | Trade Secret | 75 - 85 |
| Wax | Trade Secret | 5 - 15 |
| Carbon black | 1333-86-4 | 1 - 8 |

## 3. HAZARDS IDENTIFICATION

**Acute health effects**

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| **Skin contact** | Unlikely to cause skin irritation. |
| **Eye contact** | May cause transient slight irritation |
| **Inhalation** | Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust. |
| **Ingestion** | Low acute toxicity. Ingestion is a minor route of entry for intended use of this product. |

**Potential health effects**

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| **Routes of exposure** | Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation<br><br>Ingestion is not expected to be a primary route of exposure for this product under normal use conditions. |
| **Chronic health effects** | Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust. |
| **Carcinogenicity** | Carbon black, in its unbound form, is listed as a Class 2B (Possible human carcinogen) by IARC. Carbon black in this product, due to its bound form, does not present a carcinogenic risk. |
| **Other information** | This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, and as amended. |

## 4. FIRST AID MEASURES

**First aid procedures**

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| **Skin** | Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists. |
| **Eye** | 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. |
| **Inhalation** | Move person to fresh air immediately. 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. |

## 5. FIRE FIGHTING MEASURES

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| **Flash point and method** | Not applicable |
| **Auto ignition temperature** | Not applicable |
| **Hazardous combustion products** | Carbon monoxide and carbon dioxide. |
| **Extinguishing media** | CO2, water, or dry chemical |
| **Unsuitable extinguishing media** | None known. |
| **Unusual fire and explosion hazard** | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| **Fire fighting equipment/instructions** | If fire occurs in the printer, treat as an electrical fire. |
| **Special firefighting procedures** | None established. |

## 6. ACCIDENTAL RELEASE MEASURES

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| **Personal precautions** | Minimize dust generation and accumulation. Avoid breathing dust. |
| **Environmental precautions** | Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations. |
| **Procedures if material is released or spilled** | 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. |

## 7. HANDLING AND STORAGE

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| **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. |
| **Storage** | Keep out of the reach of children. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limit values**

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)

OSHA - Final PELs - Time Weighted Averages (TWAs)

| | | |
|---|---|---|
| Carbon black | 1333-86-4 | 3.5 mg/m3 TWA |

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

| | | |
|---|---|---|
| Carbon black | 1333-86-4 | 3.5 mg/m3 TWA |

**Personal protective equipment**

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| **General** | No personal respiratory protective equipment required under normal conditions of use. |

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| **Exposure guidelines** | Use in a well ventilated area. |

## 9. PHYSICAL & CHEMICAL PROPERTIES

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| **pH** | Not applicable |
| **Vapor pressure** | Not applicable |
| **Boiling point** | Not applicable |
| **Melting point** | 100 - 150 °C (Softening point) |
| **Softening point** | 100 - 150 °C |
| **Solubility** | Negligible in water. Partially soluble in toluene and xylene. |
| **Specific gravity** | 1 - 1.2 (H2O = 1) |
| **Flash point** | Not applicable |
| **Viscosity** | Not applicable |
| **Vapor density** | Not applicable |
| **Evaporation rate** | Not applicable |
| **Flammability** | Not flammable |
| **Appearance** | Fine powder |
| **Form** | solid |
| **Odor** | Slight plastic odor |
| **Oxidizing properties** | No information available. |
| **Other information** | Decomposition temperature: > 200 degrees C |
| **Color** | Black |

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

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| **Stability** | Stable under normal storage conditions. |
| **Conditions to avoid** | Imaging Drum: Exposure to light |
| **Hazardous polymerization** | Will not occur. |
| **Hazardous decomposition products** | Carbon monoxide and carbon dioxide. |
| **Incompatibility** | Strong oxidizers |

## 11. TOXICOLOGICAL INFORMATION

Complete toxicity data are not available for this specific formulation
Refer to Section 3 for potential health effects and Section 4 for first aid measures.

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|---|---|
| **Dermal irritation** | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| **Eye irritation** | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| **Sensitization** | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US). |
| **Chronic toxicity** | No information available. |
| **Oral toxicity** | LD50/oral/rat >2000 mg/kg , (OECD 401), Not harmful. |

**Inhalation toxicity** LC50: inh/rat 5 mg/l/4 hrs., not harmful (OECD 403).

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

**Carcinogenicity** Carbon black, in its unbound form, is listed as a Class 2B (Possible human carcinogen) by IARC. Carbon black in this product, due to its bound form, does not present a carcinogenic risk. None of the other ingredients in this product are listed by IARC, NTP, EU, MAK, OSHA, or ACGIH as a carcinogen. None of the other ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP or OSHA.

OSHA - Hazard Communication Carcinogens

| | | |
|---|---|---|
| Carbon black | 1333-86-4 | Present |

**Mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

**Reproductive toxicity** Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).

**Symptoms and target organs**

NIOSH - Pocket Guide - Target Organs

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|---|---|---|
| Carbon black | 1333-86-4 | respiratory system, eyes (lymphatic cancer in presence of PAHs) |

## 12. ECOLOGICAL INFORMATION

**Other information** This product has not been tested for ecological effects.

## 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. TRANSPORTATION INFORMATION

**General** Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

**IATA**

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|---|---|
| **Proper shipping name** | Not applicable |
| **Special precautions** | None |
| **Packaging exceptions** | None |
| **Identification number (UN)** | None |
| **Packing group** | N/A |

## 15. REGULATORY INFORMATION

**International 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.

**US federal regulations** US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA 12(b): Contains p-Xylene (CAS No. 106-42-3), subject to export notification requirements.

**State regulations** This product contains no chemical substances subject to rules or orders under California Proposition 65.

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| **HMIS ratings** | Health: | 1 |
| | Flammability: | 1 |
| | Physical hazard: | 0 |
| **NFPA ratings** | Health: | 1 |
| | Flammability: | 1 |
| | Instability: | 0 |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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| **Section 302 extremely hazardous substance** | No |
| **Section 311 hazardous chemical** | No |
| **Hazard categories** | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |

## 16. OTHER INFORMATION

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|---|---|
| **Other information** | This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200). |
| **Issue date** | Feb 23 2006 5:03PM |
| **Revision** | 2 |
| **Replaces sheet dated** | Jan 17 2006 9:31AM |
| **Disclaimer** | This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company 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. |
| **MSDS sections updated** | 1. Chemical Product and Company Identification: Identification of the preparation<br>1. Chemical Product and Company Identification: Use of the preparation<br>11. Toxicological Information: Inhalation toxicity<br>13. Disposal Considerations: Disposal instructions |

**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 |