# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the preparation** HP Color LaserJet Q5951A Cyan Print Cartridge

**Use of the preparation** This product is a cyan toner preparation that is used in HP Color LaserJet 4700 series printers.

**Company identification** Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN

**Emergency telephone number**

**Poison Information Center** 0207771 5307

**Hewlett-Packard health effects line**

**(Toll-free within the US)** 1-800-457-4209
**(Direct)** 1-503-494-7199

**General information telephone number**

1 344 36-0000
**(Toll-free within the US)** 1-800-474-6836
**(Direct)** 1-208-323-2551

**Date prepared** 30-Apr-2007

**SDS number** 193617

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component/substance | CAS number | % by weight | EU number | EU classification |
|---|---|---|---|---|
| Styrene acrylate copolymer | Trade secret | 75 - 85 | | |
| Wax | Trade secret | 5 - 15 | | |
| Copper compound | Trade secret | 1 - 5 | | |
| Amorphous silica | 7631-86-9 | 1 - 2 | 418-260-2 | Xn, R21 |

## 3. HAZARDS IDENTIFICATION

**Classification** This product is not classified according to EU Directive 1999/45/EC.

**Acute health effects**

**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**

**Routes of exposure** Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

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** None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

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| **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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| **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. |
| **Skin** | Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists. |
| **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 |
| **Lower explosion limit** | Not flammable |
| **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. |
| **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)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3

UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust)

United Kingdom - Workplace Exposure Limits (WELs) - STELs

| | | |
|---|---|---|
| Amorphous silica | 7631-86-9 | 18 mg/m3 STEL (inhalable dust); 7.2 mg/m3 STEL (respirable dust) |

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

| | | |
|---|---|---|
| Amorphous silica | 7631-86-9 | 6 mg/m3 TWA (inhalable dust); 2.4 mg/m3 TWA (respirable dust) |

**Personal protective equipment**

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| **pH** | Not applicable |
| **Vapour pressure** | Not applicable |
| **Boiling point** | Not applicable |
| **Softening point** | 100 - 150 °C (212 - 302 °F) |
| **Solubility** | Negligible in water. Partiall soluble in toluene and xylene. |
| **Specific gravity** | 1 - 1.2 (H2O = 1) |
| **Flash point** | Not applicable |
| **Viscosity** | Not applicable |
| **Vapour density** | Not applicable |
| **Evaporation rate** | Not applicable |
| **Flammability** | Not flammable |
| **Appearance** | Fine powder |
| **Form** | solid |
| **Odour** | Slight plastic odor |
| **Oxidising properties** | No information available. |
| **Other information** | Decomposition temperature: > 200 °C |
| **Colour** | Cyan |

## 10. STABILITY AND REACTIVITY

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| **Stability** | Stable under normal storage conditions. |
| **Conditions to avoid** | Imaging Drum: Exposure to light |
| **Hazardous polymerisation** | 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 aide 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. |
| **Sensitisation** | 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 >2000mg/kg, (OECD 401), Not harmful.<br><br>Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **Inhalation toxicity** | No information available.<br><br>Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **Carcinogenicity** | Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California). |
| **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). |

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

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| **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.<br><br>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

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

## 15. REGULATORY INFORMATION

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| **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. |

## 16. OTHER INFORMATION

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| **Manufacturer information** | Hewlett-Packard Company<br>11311 Chinden Boulevard<br>Boise, ID 83714 USA |
| **Ingredient risk phrase definition(s)** | R21 Harmful in contact with skin. |

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| **Other information** | This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC. |
| **Issue date** | Apr 30 2007 3:39PM |
| **Revision** | 2 |
| **Replaces sheet dated** | Nov 5 2006 1:50PM |
| **Preparation and revision information** | 8. Exposure controls/personal protection: Exposure limit values<br>Physical & Chemical Properties: Physical & Chemical Properties<br>9. Physical and chemical properties: Other information<br>13. Disposal considerations: Disposal instructions<br>Transportation Information: Material Transportation Information<br>15. Regulatory information: State regulations |
| **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. |

**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 |