# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** HP LaserJet CC364A-X-XC-XD Print Cartridge

**Product use** This product is a toner preparation that is used in HP LaserJet P4014 / P4015 / P4515 series printers.

**Version #** 06

**Revision date** 03-Aug-2010

**Company identification**

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

## 2. Hazards Identification

**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, 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.

**Other information** This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

## 3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|---|---|---|
| Polyester resin | Trade Secret | < 55 |
| Iron oxide | 1317-61-9 | < 50 |
| Amorphous silica | 7631-86-9 | < 2 |

## 4. First Aid Measures

**First aid procedures**

**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.

| | |
|---|---|
| **Skin contact** | 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 with water. Drink one to two glasses of water. If symptoms occur, consult a physician. |

## 5. Fire Fighting Measures

| | |
|---|---|
| **Flammable properties** | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| **Extinguishing media** | |
| **Suitable extinguishing media** | $CO_2$, water, or dry chemical |
| **Unsuitable extinguishing media** | None known. |
| **Protection of firefighters** | |
| **Protective equipment and precautions for firefighters** | If fire occurs in the printer, treat as an electrical fire. |
| **Specific methods** | None established. |
| **Hazardous combustion products** | Carbon monoxide and carbon dioxide. |

## 6. Accidental Release Measures

| | |
|---|---|
| **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. |
| **Other information** | Slowly vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust explosion-proof. Clean remainder with a damp cloth or vacuum cleaner. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations. |

## 7. Handling and Storage

| | |
|---|---|
| **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. Keep tightly closed and dry. Store away from strong oxidizers. |

## 8. Exposure Controls / Personal Protection

| | |
|---|---|
| **Exposure guidelines** | USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)<br><br>ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)<br><br>Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%$SiO_2$, ACGIH (TWA/TLV): 10 mg/m3 |
| **Engineering controls** | Use in a well ventilated area. |
| **Personal protective equipment** | |
| **General** | No personal respiratory protective equipment required under normal conditions of use. |

## 9. Physical & Chemical Properties

| | |
|---|---|
| **Appearance** | Fine powder |
| **Color** | Black. |
| **Odor** | Slight plastic odor |
| **Odor threshold** | Not available. |
| **Physical state** | Solid |
| **Form** | solid |
| **pH** | Not applicable |
| **Melting point** | Not available. |

| | |
|---|---|
| **Freezing point** | Not available. |
| **Boiling point** | Not applicable |
| **Flash point** | Not applicable |
| **Evaporation rate** | Not available. |
| **Flammability limits in air, upper, % by volume** | Not available. |
| **Flammability limits in air, lower, % by volume** | Not flammable |
| **Vapor pressure** | Not applicable |
| **Vapor density** | Not available. |
| **Specific gravity** | 1.4 (H2O = 1) |
| **Relative density** | Not available. |
| **Solubility (water)** | Negligible in water. Partially soluble in toluene and xylene. |
| **Auto-ignition temperature** | No data available |
| **Decomposition temperature** | Not available. |
| **Softening point** | 212 - 302 °F (100 - 150 °C) |
| **Viscosity** | Not applicable |
| **Percent volatile** | Negligible |
| **VOC** | Not applicable |
| **Other information** | Decomposition temperature: > 200 ° C |

## 10. Chemical Stability & Reactivity Information

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

## 11. Toxicological Information

| | |
|---|---|
| **Oral toxicity** | LD50/oral/rat >2000 mg/kg; Not harmful. (OECD 401). Not classified for acute oral 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). |
| **Inhalation toxicity** | No information available.<br><br>Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **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. |
| **Skin sensitization** | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| **Chronic toxicity** | No information available. |
| **Sensitization** | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US). |
| **Mutagenicity** | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) |
| **Reproductivity** | Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany). |
| **Further information** | Complete toxicity data are not available for this specific formulation<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

## 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | LL50: 1000 mg/l, Rainbow Trout, 96.00 Hours |
| **Persistence and degradability** | Not available. |

## 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**

22 or 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.

**DOT**

Not regulated as dangerous goods.

**IATA**

**Basic shipping requirements:**

| | |
|---|---|
| **Proper shipping name** | Magnetized Material |
| **UN number** | 2807 |

**IMDG**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations**

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

**CERCLA (Superfund) reportable quantity**

None

**Occupational Safety and Health Administration (OSHA)**

| | |
|---|---|
| **29 CFR 1910.1200 hazardous chemical** | No |

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

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

**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.

## 16. Other Information

**Other information**

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

**HMIS® ratings**

Health: 1
Flammability: 1
Physical hazard: 0

**NFPA ratings**

Health: 1
Flammability: 1
Instability: 0

| | |
|---|---|
| **Disclaimer** | This [Material] Safety Data Sheet is provided without charge to customers of Hewlett-Packarc Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this (M)SDS 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. |
| **Issue date** | 03-Aug-2010 |
| **This data sheet contains changes from the previous version in section(s):** | 9. Physical & Chemical Properties: Color<br>Transport Information: Agency Name and Packaging Type/Transport Mode Selection<br>14. Transport Information: Further information |
| **Manufacturer information** | Hewlett-Packard Company<br>11311 Chinden Boulevard<br>Boise, ID 83714 USA<br>(Direct) 1-503-494-7199<br>(Toll-free within the US) 1-800-457-4209 |

**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 |

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** HP LaserJet CE390A-X-XC-XD Print Cartridge

**Product use** This product is a toner preparation that is used in HP LaserJet Enterprise M4555 MFP, 600 M601, 600 M602, 600 M603 series printers.

**Version #** 05

**Revision date** 07-Aug-2012

**Company identification**

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

## 2. Hazards Identification

**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, 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.

**Other information** This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

## 3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|---|---|---|
| Polyester resin | Trade Secret | < 55 |
| Iron oxide | 1317-61-9 | < 50 |
| Amorphous silica | 7631-86-9 | < 3 |

## 4. First Aid Measures

**First aid procedures**

**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.

| | |
|---|---|
| **Skin contact** | 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 with water. Drink one to two glasses of water. If symptoms occur, consult a physician. |
| **General advice** | No additional information |

## 5. Fire Fighting Measures

| | |
|---|---|
| **Flammable properties** | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| **Extinguishing media** | |
| **Suitable extinguishing media** | $CO_2$, water, or dry chemical |
| **Unsuitable extinguishing media** | None known. |
| **Protection of firefighters** | |
| **Protective equipment and precautions for firefighters** | If fire occurs in the printer, treat as an electrical fire. |
| **Specific methods** | None established. |
| **Hazardous combustion products** | Carbon monoxide and carbon dioxide. |

## 6. Accidental Release Measures

| | |
|---|---|
| **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. |
| **Other information** | Slowly vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust explosion-proof. Clean remainder with a damp cloth or vacuum cleaner. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations. |

## 7. Handling and Storage

| | |
|---|---|
| **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. Keep tightly closed and dry. Store away from strong oxidizers. |

## 8. Exposure Controls / Personal Protection

| | |
|---|---|
| **Exposure guidelines** | USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)<br><br>ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)<br><br>Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%$SiO_2$, ACGIH (TWA/TLV): 10 mg/m3 |
| **Engineering controls** | Use in a well ventilated area. |
| **Personal protective equipment** | |
| **General** | No personal respiratory protective equipment required under normal conditions of use. |

## 9. Physical & Chemical Properties

| | |
|---|---|
| **Appearance** | Fine powder |
| **Color** | Black. |
| **Odor** | Slight plastic odor |
| **Odor threshold** | Not available. |
| **Physical state** | Solid |
| **Form** | solid |
| **pH** | Not applicable |

| | |
|---|---|
| **Melting point** | Not available. |
| **Freezing point** | Not available. |
| **Boiling point** | Not applicable |
| **Flash point** | Not applicable |
| **Evaporation rate** | Not available. |
| **Flammability limits in air, upper, % by volume** | Not available. |
| **Flammability limits in air, lower, % by volume** | Not flammable |
| **Vapor pressure** | Not applicable |
| **Vapor density** | Not available. |
| **Specific gravity** | 1.4 - 1.8 (H2O = 1) |
| **Relative density** | Not available. |
| **Solubility (water)** | Negligible in water. Partially soluble in toluene and xylene. |
| **Auto-ignition temperature** | No data available |
| **Decomposition temperature** | > 392 °F (> 200 °C) |
| **Softening point** | 212 - 302 °F (100 - 150 °C) |
| **Viscosity** | Not applicable |
| **Percent volatile** | Negligible |
| **VOC** | Not applicable |
| **Other information** | Decomposition temperature: > 200 ° C |

## 10. Chemical Stability & Reactivity Information

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

## 11. Toxicological Information

| | |
|---|---|
| **Oral toxicity** | LD50/oral/rat >2000 mg/kg; Not harmful. (OECD 401). Not classified for acute oral 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). |
| **Inhalation toxicity** | No information available.<br><br>Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **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. |
| **Chronic toxicity** | No information available. |
| **Sensitization** | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US). |
| **Mutagenicity** | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) |
| **Reproductivity** | Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany). |
| **Further information** | Complete toxicity data are not available for this specific formulation<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

## 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | LL50: > 1000 mg/l, Fish, 96.00 Hours |
| **Persistence and degradability** | Not available. |

## 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** 19 or 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.

**DOT**

Not regulated as dangerous goods.

**IATA**

**Basic shipping requirements:**

| | |
|---|---|
| **Proper shipping name** | Magnetized Material |
| **UN number** | 2807 |

**IMDG**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

## 15. Regulatory Information

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

**CERCLA (Superfund) reportable quantity**

None

**Occupational Safety and Health Administration (OSHA)**

| | |
|---|---|
| **29 CFR 1910.1200 hazardous chemical** | No |

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

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

**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.

## 16. Other Information

**Other information** This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

**HMIS® ratings**
Health: 1
Flammability: 1
Physical hazard: 0

**NFPA ratings**
Health: 1
Flammability: 1
Instability: 0

**Disclaimer** This [Material] Safety Data Sheet 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 (M)SDS 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.

**Issue date** 07-Aug-2012

**Manufacturer information** Hewlett-Packard Company
11311 Chinden Boulevard
Boise, ID 83714 USA
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

**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 |

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** HP LaserJet CF281A-X-XC Print Cartridge

**Other means of identification** Not available.

**Recommended use** This product is a toner preparation that is used in HP LaserJet Enterprise MFP M630 series printers

**Recommended restrictions** None known.

**Company identification**

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-5020

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP 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)** This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. 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

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Polyester resin | Polyester resin | Trade Secret | - < 55 |
| Iron oxide | Iron oxide | 1317-61-9 | - < 50 |
| Amorphous silica | Amorphous silica | 7631-86-9 | < 3 |

## 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 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** | Not applicable. |
| **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** | Not available. |
| **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. Store at room temperature. Keep tightly closed and dry. Store away from strong oxidizers. |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Amorphous silica (CAS 7631-86-9) | TWA | 6 mg/m3 |

| | |
|---|---|
| **Biological limit values** | 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)<br><br>ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)<br><br>Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3<br><br>TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)<br><br>UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust) |
| **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. |
| **Thermal hazards** | Not available. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | Fine powder |
| **Physical state** | Solid. |
| **Color** | Black. |
| **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 available. |
| **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 |
| **Vapor density** | 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** | No data available |
| **Decomposition temperature** | > 392 °F (> 200 °C) |
| **Viscosity** | Not applicable |
| **Other information** | |
| **Oxidizing properties** | No information available. |
| **Percent volatile** | Negligible |
| **Softening point** | 212 - 302 °F (100 - 150 °C) |
| **Specific gravity** | 1.4 - 1.8 |
| **VOC (Weight %)** | Not applicable |

## 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

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

**Information on toxicological effects**

**Acute toxicity**

**Skin corrosion/irritation** Not available.

**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.

**Respiratory or skin sensitization**

**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.

**Germ cell mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

**Carcinogenicity** Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

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

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information 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.

| Components | Species | Test Results |
|---|---|---|
| Amorphous silica (CAS 7631-86-9) | | |
| **Acute** | | |
| *Oral* | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |

## 12. Ecological information

**Aquatic toxicity** Not available

**Ecotoxicity** LL50: > 1000 mg/l, Fish, 96.00 Hours

| Product | | Species | Test Results |
|---|---|---|---|
| CF281A-X-XC | | | |
| **Aquatic** | | | |
| Fish | LL50 | Fish | > 1000 mg/l, 96 Hours |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 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.

**Hazardous waste code** Not regulated.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

## 14. Transport information

**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 applicable.

**Environmental hazards** No.

**Special precautions for user** Not available.

**Other information**

**Passenger and cargo aircraft** Forbidden.

**Cargo aircraft only** Forbidden.

**IMDG**

Not regulated as dangerous goods.

**Further information** 19 or 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. 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.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**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

**SARA 313 (TRI reporting)**

Not regulated.

**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. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

Not Listed.

**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.

## 16. Other information, including date of preparation or last revision

**Issue date** 30-Sep-2014

**Version #** 01

**Disclaimer** This [Material] Safety Data Sheet is provided without charge to customers of Hewlett-Packarc Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this (M)SDS 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.

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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 |