



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name HP Color LaserJet CF323A Magenta Print Cartridge
Version # 01
Issue date 08-Apr-2014
Product use This product is a magenta toner preparation that is used in HP Color LaserJet Enterprise Flow MFF M680 series printers.
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. Hazards Identification

Potential health effects
Eyes May cause transient slight irritation
Skin Unlikely to cause skin irritation.
Inhalation Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust. Use of this product as intended does not result in inhalation of excessive amounts of dust.
Ingestion Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.
Other hazards 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.

3. Composition / Information on Ingredients

| Non-hazardous components | CAS # | Percent |
|----------------------------|--------------|---------|
| Styrene acrylate copolymer | Trade Secret | <85 |
| Pigment | Trade Secret | <10 |
| Wax | Trade Secret | <10 |
| Amorphous silica | 7631-86-9 | <3 |

4. First Aid Measures

General advice No information
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 out 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. |
| Fire fighting equipment/instructions | 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. 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

| | |
|-----------------|--|
| 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. Keep tightly closed and dry. Store away from strong oxidizers. Store at room temperature. |

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/m ³ |
|----------------------------------|-----|---------------------|

| | |
|----------------------------|---|
| Exposure guidelines | USA OSHA (TWA/PEL): 15 mg/m ³ (Total Dust), 5 mg/m ³ (Respirable Fraction) ACGIH (TWA/TLV): 10 mg/m ³ (Inhalable Particulate), 3 mg/m ³ (Respirable Particulate) Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m ³)/%SiO ₂ , ACGIH (TWA/TLV): 10 mg/m ³ |
|----------------------------|---|

| | |
|-----------------------------|--------------------------------|
| 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 |
| Form | solid |
| Color | Magenta |
| Odor | Slight plastic odor |
| pH | Not applicable |
| Vapor pressure | Not applicable |
| Boiling point | Not applicable |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Negligible in water. Partially soluble in toluene and xylene. |

| | |
|----------------------------------|----------------------------|
| Specific gravity | 1 - 1.2 |
| Flash point | Not applicable |
| Viscosity | Not applicable |
| Percent volatile | 0 % estimated |
| Softening point | 176 - 266 °F (80 - 130 °C) |
| VOC | Not available |
| Other information | No information available |
| Other data | |
| Decomposition temperature | > 392 °F (> 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

Toxicological data

| Components | Species | Test Results |
|--|---|---------------|
| Amorphous silica (CAS 7631-86-9) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |
| Sensitization | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US). | |
| Chronic effects | No information available. | |
| Carcinogenicity | Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California). | |
| 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. | |
| Mutagenicity | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) | |
| Reproductive effects | 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 Refer to Section 2 for potential health effects and Section 4 for first aid measures. | |

12. Ecological Information

Ecotoxicological data

| Product | Species | Test Results |
|--------------------------------------|-------------------------------------|----------------------|
| CF323A | | |
| Fish | LC50 Fish | > 100 mg/l, 96 Hours |
| Ecotoxicity | LC50: > 100 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

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

15. Regulatory Information

US federal regulations

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

No

SARA 311/312 Hazardous chemical

No

State regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

16. Other Information

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

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.

Other information

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

Issue date

08-Apr-2014

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 |