



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Material name HP LaserJet C4182X-XC Print Cartridge

Use of the preparation This product is a toner preparation that is used in HP LaserJet 8100/8100mfp/8150/8150mfp/Mopier 320 series printers.

Version # 08

Revision date 10-Dec-2007

Product code(s) C4182X-XC

Manufacturer information Hewlett-Packard Company
11311 Chinden Boulevard
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 Dec 10, 2007

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.

3. Composition / Information on Ingredients

| Component/substance | CAS number | % by weight |
|----------------------------|--------------|-------------|
| Styrene acrylate copolymer | Trade Secret | 40 - 50 |
| Iron oxide | 1317-61-9 | 40 - 50 |



MATERIAL SAFETY DATA SHEET

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

| | |
|--|---|
| Flash point and method | Not applicable |
| Hazardous combustion products | Carbon monoxide and carbon dioxide. |
| 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. |
| Unusual fire and explosion hazard | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| Protection of firefighters | |
| Protective equipment and precautions for firefighters | If fire occurs in the printer, treat as an electrical fire. |
| Special firefighting procedures | None established. |

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. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers. |



MATERIAL SAFETY DATA SHEET

8. Exposure Controls/Personal Protection

Exposure guidelines 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)

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 | Not available |
| 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 | 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 applicable |
| Specific gravity | 1.5 - 1.8 (H ₂ O = 1) |
| Relative density | Not available |
| Solubility in water | Negligible in water. Partially soluble in toluene and xylene. |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not available |
| Softening point | 212 - 302 °F (100 - 150 °C) |
| Viscosity | Not applicable |

10. Chemical Stability & Reactivity Information

| | |
|-------------------------------|---|
| Chemical stability | Stable under normal storage conditions. |
| Conditions to avoid | Imaging Drum: Exposure to light |
| Incompatible materials | Strong oxidizers |



MATERIAL SAFETY DATA SHEET

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.

Inhalation toxicity LC50: inh/rat 5 mg/l/4 hrs., (OECD 403).
Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

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.

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

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. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

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



MATERIAL SAFETY DATA SHEET

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

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

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

NFPA ratings Health: 1
Flammability: 1
Instability: 0

Issue date Dec 10 2007 10:31AM

Revision 8

Replaces sheet dated Dec 3 2007 11:27AM

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 15. Regulatory Information: US federal regulations



MATERIAL SAFETY DATA SHEET

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 |