1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation  HP Color LaserJet C4193A  Magenta Print Cartridge

Use of the preparation  This product is a magenta toner preparation that is used in HP Color LaserJet 4500/4550 series printers.

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  Oct 03, 2005

MSDS number  76175

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene acrylate copolymer</td>
<td>Trade Secret</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Wax</td>
<td>Trade Secret</td>
<td>5 - 15</td>
</tr>
<tr>
<td>Polyester resin</td>
<td>Trade Secret</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Pigment</td>
<td>Trade Secret</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

3. 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 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.

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
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
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
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
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)

TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)

OSHA - Final PELs - Time Weighted Averages (TWAs)
Titanium dioxide 13463-67-7 15 mg/m3 TWA (total dust)

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Titanium dioxide 13463-67-7 10 mg/m3 TWA
9. PHYSICAL & CHEMICAL PROPERTIES

pH: Not applicable
Vapor pressure: Not applicable
Boiling point: Not applicable
Melting point: 100 - 150 °C (212.0 - 302.0 °F) (Softening point)
Softening point: 100 - 150 °C (212.0 - 302.0 °F)
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: Magenta

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability: Stable under normal storage conditions.
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.

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.
Chronic toxicity: No information available.
Oral toxicity: LD50/oral/rat >2000 mg/kg , Not harmful. (OECD 401)
MATERIAL SAFETY DATA SHEET

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
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).

Symptoms and target organs
NIOSH - Pocket Guide - Target Organs
Titanium dioxide 13463-67-7 respiratory system (in animals: lung tumors)

12. ECOLOGICAL INFORMATION

Environmental fate
Bioaccumulation
Titanium dioxide: Not bioaccumulated.

Other information
No data available for ecological and wastewater treatment (sewage) systems.

13. DISPOSAL CONSIDERATIONS

Disposal instructions
Do not shred print 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
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.

HMIS ratings
Health: 1
Flammability: 1
Physical hazard: 0
### MATERIAL SAFETY DATA SHEET

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

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
- Section 302 extremely hazardous substance: No
- Section 311 hazardous chemical: No

**Hazard categories**
- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

### 16. OTHER INFORMATION

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

**Issue date**
Oct 3 2005 7:08PM

**Revision**
2

**Replaces sheet dated**
Apr 19 2005 11:46AM

**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**
8. Exposure Controls/Personal Protection: Exposure limit values
11. Toxicological Information: Inhalation toxicity
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