



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Material name HP Color LaserJet Q5953A Magenta Print Cartridge

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

Version # 03

Revision date 18-Jun-2008

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 Jun 18, 2008

MSDS number 287926

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 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, as amended.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Styrene acrylate copolymer	Trade Secret	75 - 85
Wax	Trade Secret	5 - 15
Pigment	Trade Secret	1 - 6
Amorphous silica	7631-86-9	1 - 2



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 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

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

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.

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. Store away from strong oxidizers. Keep tightly closed and dry.



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)

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

Personal protective equipment

General

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

9. Physical & Chemical Properties

Appearance	Fine powder
Color	Magenta
Odor	Slight plastic odor
Odor threshold	Not available
Physical state	Not available
Form	solid
pH	Not applicable
Melting point	212 - 302 °F (100 - 150 °C) (Softening point)
Freezing point	Not available
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
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 - 1.2 (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



MATERIAL SAFETY DATA SHEET

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, (OECD 401), Not harmful. Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Inhalation toxicity	No information available. 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

Ecotoxicity	96.00 Hours, LL50 > 1000 mg/l, rainbow trout
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 hazardous goods.



MATERIAL SAFETY DATA SHEET

IATA

Proper shipping name	None
UN number	None
Packing group	None
Packaging exceptions	None

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

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.

State regulations This product contains no chemical substances subject to rules or orders under California Proposition 65.

16. Other Information

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

NFPA ratings Health: 1
Flammability: 1
Instability: 0

Issue date Jun 18 2008 4:09PM

Revision 3

Replaces sheet dated Apr 30 2007 4:37PM

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.



MATERIAL SAFETY DATA SHEET

MSDS sections updated

- 3. Hazards Identification: Other information
- 7. Handling and Storage: Storage
- 8. Exposure Controls/Personal Protection: Exposure limit values
- 12. Ecological Information: Ecotoxicity effects
- 12. Ecological Information: Other information
- 15. Regulatory Information: US federal regulations

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