

### 1. Chemical Product and Company Identification

**Material name** HP LaserJet 92298A-X Print Cartridge

Use of the preparation This product is a toner preparation that is used in HP LaserJet 4/4 Plus/4M/4M Plus/5/5M series

printers.

Version # 04

**Revision date** 30-Apr-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** Apr 30, 2008 **MSDS** number 271739

#### 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	45 - 55
Iron oxide	1317-61-9	45 - 55

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4. First Aid Measures

First aid procedures

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) **Eye contact** 

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.

Keep away from excessive heat, sparks, and open flames. Use with adequate ventilation.

Keep out of the reach of children. Keep tightly closed and dry. Store away from strong **Storage** 

oxidizers. Store at room temperature.

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### 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

Fine powder **Appearance** 

Color Black

Odor Slight plastic odor **Odor threshold** Not available

**Physical state** Not available

**Form** solid

Ηd 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. Not available

Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not flammable

Vapor pressure Not applicable Vapor density Not applicable Specific gravity 1.5 - 1.8 (H2O = 1)

**Relative density** Not available

Solubility in water Negligible in water. Partially soluble in toluene and xylene.

**Partition coefficient** Not available

(n-octanol/water)

**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

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**Incompatible materials** 

Strong oxidizers

**Hazardous decomposition** products

Carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

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 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** 

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

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**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

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Revision

Replaces sheet dated Feb 26 2007 2:32PM

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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 quaranteeing 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

3. Hazards Identification: Other information

7. Handling and Storage: Storage

12. Ecological Information: Ecotoxicity effects 15. Regulatory Information: US federal regulations

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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

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