



# Material Safety Data Sheet

## 1.0 Product and Company Identification

### Identification of the preparation

**HP LaserJet Print Cartridge  
92298A/X**

### Company Identification

Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, Idaho 83714  
United States

### Emergency Telephone Number Hewlett-Packard Health Effects Line

1-800-457-4209 (USA and Canada)  
503-494-7199 (USA direct)  
Singapore: +001-800-332-13321

### General Information Telephone Number

208-323-2551 (USA direct)

### Local Contact Information

**Ireland**  
Liffey Park Technology Park  
Barnhall Road Leixlip, Co.  
Kildare, Ireland  
Phone: 01 6150000

**United Kingdom**  
Hewlett-Packard, Ltd.  
Cain Road, Amen Corner  
Bracknell, Berkshire, RG12 1HN  
Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	N/A

## 2.0 Composition/Information on Ingredients

This product is a toner preparation that is used in Hewlett-Packard 4, 4 Plus, 4M, 4M Plus, or 5 LaserJet printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer	-	-	45 - 55	-
Iron Oxide	1317-61-9	215-277-5	45 - 55	-

## 3.0 Hazard Identification

The preparation is not classified according to EU Directive 1999/45/EC



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**3.1 Routes of Exposure** Inhalation, ingestion, skin and eyes.

**3.2 Acute Health Hazards**

**Inhalation:** Minimal respiratory tract irritation may occur with exposure to large amount of toner dust

**Ingestion:** Ingestion is not applicable route of entry for intended use.

**Skin:** Unlikely to cause skin irritation

**Eyes:** May cause eye irritation

**3.3 Chronic Health Hazards**

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.

**3.4 Carcinogenicity**

Refer to section 11.

## 4.0 First Aid Measures

**Inhalation:**

Move person to fresh air immediately. If symptoms occur, consult a physician.

**Ingestion:**

Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

**Skin:**

Wash affected areas thoroughly with soap and water. If symptoms occur, consult a physician.

**Eyes:**

Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If symptoms occur, consult a physician.

## 5.0 Fire Fighting Measures

**Extinguishing media**

CO<sub>2</sub>, water, dry chemical

**Unsuitable Extinguishing Media**

None known

**Special Firefighting Procedures**

None

**Unusual fire and explosion hazards**

Toner material, like most organic material in powder form, is capable of creating a dust explosion

**Auto-ignition temperature**

No data available

**Flashpoint (method)**

Not applicable

**Hazardous Combustion Products**

Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

## 6.0 Accidental release measures

**6.1 Spill or leak procedures**

Wear personal protective equipment as described in Section 8. Minimize the release of particulates. Vacuum or sweep the material into a bag or other sealed container and dispose in accordance with local requirements.



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## 6.2 Environmental precautions

Do not discharge into drains (See also section 13 Disposal Considerations).

## 7.0 Handling and Storage

### Advice on safe handling and protection against fire

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

### Requirements for storage rooms and advice on storage compatibility

Keep container closed and store at room temperature. Keep away from strong oxidizers.

## 8.0 Exposure control/ personal protection

### 8.1 Exposure Limit Values

USA OSHA (TWA)/PEL):	15 mg/m <sup>3</sup> (Total Dust)
	5 mg/m <sup>3</sup> (Respirable Fraction)
ACGIH (TWA/TLV):	10 mg/m <sup>3</sup> (Inhalable Particulate)
	3 mg/m <sup>3</sup> (Respirable Particulate)
TRGS 900 (Luftgrenzwert):	10 mg/m <sup>3</sup> (Einatembare Partikel)
	3 mg/m <sup>3</sup> (Alveolengängige Fraktion)

### 8.2 Exposure Controls

Respiratory protection	Not required under intended use
Ventilation	Good general ventilation should be sufficient under intended use
Protective gloves	Not required under intended use
Eye protection	Not required under intended use
Other protective equipment	Not required under intended use

## 9.0 Physical and chemical properties

pH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Melting point	100 - 150°C (Softening Point)
Flammability	Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V) A.10)
Explosive properties	Toner material, like most organic material in powder form, is capable of creating a dust explosion
Oxidizing properties	No data available
Vapor Pressure	Not applicable
Specific gravity (H <sub>2</sub> O=1)	1.4 - 1.6
Solubility in water	Negligible
Solubility in organic solvents	Partially soluble in toluene and xylene
Partition coefficient	Not applicable



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<b>Viscosity</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Physical state</b>	Fine powder
<b>Color</b>	Black
<b>Odor</b>	Slight plastic odor
<b>Other</b>	None known

## 10.0 Stability and reactivity

<b>Stability</b>	Stable under normal storage conditions
<b>Incompatibilities</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
<b>Hazardous polymerization</b>	Will not occur.

## 11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

### Acute Toxicity:

**Skin Contact:** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.

**Chronic Toxicity:** No data available

### Other Toxicity Data:

**Mutagenicity:** Negative, does not indicate mutagenic potential, (Ames Test: *Salmonella typhimurium*).

**Carcinogenicity:** Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).

## 12.0 Ecological Information

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

## 13.0 Disposal considerations

Product / unused product / contaminated packaging (for Germany only)

Recommendation: consultation with the disposal agency and the relevant authorities; cleansing agent is water.

## 14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

<b>UN Number</b>	None
<b>Class</b>	None
<b>Proper Shipping Name</b>	None



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Packing Group None  
Special Precautions None

## 15.0 Regulatory information

US EPA TSCA Inventory	All ingredients are listed on TSCA inventory
US EPA TSCA 12(b)	None
US California Proposition 65	None
EU Notification	All components in this product are compliant with EU Chemical Inventory regulations.
EU R&S Phrase Information	No European Risk Phrases (labeling data)
Dangerous Components (CAS No.) wt%	None
USA Labeling	
Signal Word	Not required
Hazard Warning	Not required
Safety Advice	Not required
Hazardous Component(s)	None

## 16.0 Other information

Date Prepared: August 1, 2002  
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Revision Information: This document replaces all prior versions of the MSDS  
Other Information: This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200).

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