



# Material Safety Data Sheet

## 1.0 Product and Company Identification

### Identification of the Preparation

**HP LaserJet Print Cartridge  
C4092A**

### 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 LaserJet 1100 and 3200 series printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer	-	-	40 - 50	-
Iron Oxide	1317-61-9	215-277-5	40 - 50	-

## 3.0 Hazard Identification

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, and as amended.



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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:** Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

**Skin:** Unlikely to cause skin irritation.

**Eyes:** May cause transient slight 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** Carbon monoxide, carbon dioxide, smoke.



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## 6.0 Accidental release measures

- 6.1 Spill or leak procedures** Avoid breathing dust. Minimize the release of particles. Slowly 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 waste toner in accordance with local requirements.
- 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 out of the reach of children. 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))



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<b>Explosive properties</b>	Toner material, like most organic material in powder form, is capable of creating a dust explosion.
<b>Oxidizing properties</b>	No data available
<b>Vapor Pressure</b>	Not applicable
<b>Specific gravity (H<sub>2</sub>O=1)</b>	1.4 - 1.8
<b>Solubility in water</b>	Negligible
<b>Solubility in organic solvents</b>	Partially soluble in toluene and xylene.
<b>Partition coefficient</b>	Not applicable
<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>	Carbon monoxide, carbon dioxide, smoke.
<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

<b>Inhalation:</b>	LC <sub>50</sub> :inh-rat>5mg/L/4 hrs. (data from similar toner), not harmful.
<b>Ingestion:</b>	LD <sub>50</sub> :orl-rat>2000 mg/kg (data from ingredients of toner), not harmful.
<b>Eye Contact:</b>	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
<b>Skin Contact:</b>	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
<b>Chronic Toxicity:</b>	No data available.
<b>Sensitization:</b>	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
<b>Mutagenicity:</b>	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium).
<b>Carcinogenicity:</b>	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).



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**Reproductive Toxicity:** Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, or DFG (Germany).

**Other:** Sub-Acute Toxicity (Rat) - 90 day inhalation test, sample mean volume diameter 6.0 mm, No Observable Effect Level (NOEL): 16 mg/m<sup>3</sup>. Expected air concentration levels under printing conditions are <0.01mg/m<sup>3</sup>.

## 12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

## 13.0 Disposal considerations

Do not put toner or print cartridge into fire; heated toner may cause severe burns. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

## 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
<b>Packing Group</b>	None
<b>Special Precautions</b>	None

## 15.0 Regulatory information

<b>US EPA TSCA Inventory</b>	All chemical substances in this product comply with all rules or orders under TSCA.
<b>US EPA TSCA 12(b)</b>	Contains p-Xylene - [CAS No. 106-42-3]
<b>US California Proposition 65</b>	None
<b>EU Notification</b>	All components in this product are compliant with EU Chemical Inventory regulations.
<b>EU R&amp;S Phrase Information</b>	No European Risk Phrases (labeling data)
<b>Dangerous Components (CAS No.) wt%</b>	None
<b>USA Labeling</b>	
<b>Symbol</b>	Not required
<b>Hazard Warning</b>	Not required
<b>Safety Advice</b>	Not required
<b>Hazardous Component(s)</b>	None



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## 16.0 Other information

**Date Prepared:** July 1, 2004

**HP-DMS Document Control**

**Number:**

**Revision Information:** This document replaces all prior versions of the MSDS

**EU 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).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the product as described or its suitability for a particular application.