



# Material Safety Data Sheet

## 1.0 Product and Company Identification

Identification of the Preparation

**HP LaserJet Cartridge C4182X**

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 8100, Mopier 320, 8150 series, or 8150MFP 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

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

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

**3.2 Acute Health Hazards**



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- 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.



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## 6.0 Accidental release measures

- 6.1 Spill or leak procedures** Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. 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

- Advise 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 advise 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))
- Explosive properties** Toner material, like most organic material in powder form, is capable of creating a dust explosion.



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<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>	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

<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> :ori-rat >2000 mg/kg, not harmful.
<b>Eye Contact:</b>	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.
<b>Skin Contact:</b>	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.
<b>Chronic Toxicity:</b>	No data available.
<b>Sensitization:</b>	Not classified as a sensitizer according to EU Directive 67/548/EEC 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).
<b>Reproductive Toxicity:</b>	Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).



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**Other:** Sub-Acute Toxicity (Rat) - 90 day inhalation test, sample mean volume diameter 6.0 mm, No Observable Effect Level (NOEL): 16mg/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.

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

## 15.0 Regulatory information

<b>US EPA TSCA Inventory</b>	All ingredients are listed on TSCA inventory
<b>US EPA TSCA 12(b)</b>	None
<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

## 16.0 Other information

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



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**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).

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