



# Material Safety Data Sheet

## 1.0 Product and Company Identification

**Identification of the preparation**                      **HP LaserJet Print Cartridge C3973A**

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

**Emergency telephone number**                      1-800-457-4209 (USA and Canada)  
**Hewlett-Packard Health Effects Line**              Intl: +1-503-494-7199 (all other areas)  
Singapore: +001-800-332-13321

**General information telephone number**            1-208-323-2551 (USA and Canada)  
Intl: +1-208-323-2551 (all other areas)

**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 4, 4 Plus, 4M, 4M Plus, or 5 series 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

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

**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.

**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.

**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

**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.

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

## 8.0 Exposure control/ personal protection

### 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)

### 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 and as amended (Annex V) A.10)



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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 - 1.6
<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

### Acute Toxicity:

<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>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).

## 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. Do not shred print cartridge, unless dust-explosion prevention measures are taken. Finely



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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 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

<b>Date Prepared:</b>	July 1, 2004
<b>HP-DMS Document Control Number:</b>	
<b>Revision Information:</b>	This document replaces all prior versions of the MSDS
<b>EU Information</b>	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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