

Material Safety Data Sheet

Issue date: April 14, 1997

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| 1.0 | Preparation and company identity |
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Identification of the preparation

*Toner* HP Laser Jet Cartridge 92298X

Company identification

**HEWLETT-PACKARD COMPANY**  
 11311 Chinden Blvd.  
 Boise, ID 83714

Telephone number

Hewlett-Packard - Boise Site  
 (208) 396-6000

Hewlett-Packard - General Information  
 208 323-2551

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| 2.0 | Composition/information on ingredients |
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This product is a toner preparation that is used in a Hewlett-Packard 4, 4 Plus, 4M, 4M Plus, or 5 LaserJet printer.

Ingredients

| Substance                  | CAS number  | Percent (wt) | Symbol | R Phrase |
|----------------------------|-------------|--------------|--------|----------|
| Styrene Acrylate Copolymer |             | 45 - 55      | -      | -        |
| Iron Oxide                 | (1317-61-9) | 45 - 55      | -      | -        |

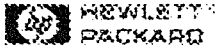
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| 3.0 | Hazards identification |
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Potential Health Effects

**Ingestion effects:** Ingestion is not applicable route of entry for intended use.  
**Inhalation effects:** Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.  
**Eye Effects:** May cause eye irritation.  
**Skin effects:** Unlikely to cause skin irritation.

Environmental hazards

No particular hazards known.



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#### 4.0 First-aid measures

##### After ingestion

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

##### After inhalation

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

##### After contact with eyes

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

##### After contact with skin

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

#### 5.0 Fire-fighting measures

|                                   |   |
|-----------------------------------|---|
| Flash Point (method used):        | No data available   |
| Ignition Temperature:             | No data available   |
| Flammability:                     | Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V) A.10) |
| Flammable Limits:                 | No data available   |
| Extinguishing Media:              | CO <sub>2</sub> , water, dry chemical   |
| Special Fire Fighting Procedures: | None  |
| Unusual Fire & Explosion Hazards: | Toner material, like most organic material in powder form, is capable of creating a dust explosion. |

#### 6.0 Accidental release measures

##### Spill and Leakage 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.**

##### Environmental precautions

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

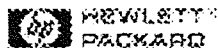
#### 7.0 Handling and storage

##### 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 advice on storage compatibility

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



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## 8.0 Exposure controls / personal protection

### Exposure Limits For Toner:

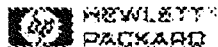
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| USA OSHA (TWA <sup>5</sup> )/PEL):       | 15 mg/m <sup>3</sup> (Total Dust)<br>5 mg/m <sup>3</sup> (Respirable Fraction)               |
| ACGIH (TWA/TLV):                         | 10 mg/m <sup>3</sup> (Inhalable Particulate)<br>3 mg/m <sup>3</sup> (Respirable Particulate) |
| DFG (MAK):<br>(Also refer to Section 2.) | 6 mg/m <sup>3</sup> (Feinstaubkonzentration)   |
| 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

|  |  |
|--|--|
| Boiling Point:                         | Not applicable                           |
| Melting Point:                         | 100 - 150°C (Softening Point)            |
| Vapor Pressure (mmHg.):                | Not applicable                           |
| Vapor Density (Air=1):                 | Not applicable                           |
| Solubility in Water:                   | Negligible                               |
| Solubility in Organic Solvents:        | Partially soluble in toluene and xylene. |
| Specific Gravity (H <sub>2</sub> O=1): | 1.4- 1.6                                 |
| Percent Volatile by Volume:            | Not applicable                           |
| Evaporation Rate (Butyl Acetate=1):    | Not applicable                           |
| pH:                                    | Not applicable                           |
| Appearance and Odor:                   | Fine black powder, slight plastic odor.  |

## 10.0 Stability and reactivity

|                                   |   |
|-----------------------------------|---|
| Stability:                        | <b>Stable</b>   |
| Incompatibility:                  | Strong oxidizers  |
| Hazardous Decomposition Products: | Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide. |
| Hazardous Polymerization:         | Will not occur.   |



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#### 11.0 Toxicological information

Acute Toxicity:

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

Chronic Toxicity: **No data available.**

Other Toxicity Data:

Mutagenicity: **Negative (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

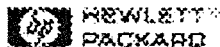
International Transport Information:

UN No.: **None**

Hazards Class: **None**

Packing Group: **None**

Special Precautions: **None**



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| 15.0 Regulatory information |
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Chemicals Required to Report Under Sara Title III Section 313 (USA):

None

Label Information According to the Directives 88/379/EEC and 67/548/EEC (EU):

Symbol and Indications:

Not required.

R Phrases:

Not required.

S Phrases:

Not required.

Dangerous Components (CAS No.) wt%:

None

Other:

None

Specific provisions in relation to protection of man or the environment (EU):

Regulation (EEC) 2455/92:

Not regulated.

Directive 76/769/EEC:

Not regulated.

Other:

None

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| 16.0 Other information |
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**This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.**

**For general information, contact Hewlett-Packard at 208 323-2551.**