



Material Safety Data Sheet

Issue date: November 23, 1999

5c490

### 1.0 Preparation and company identity

Identification of the preparation

**HP Laser Jet Cartridge 92298X***and 92298S*

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**

### 2.0 Composition/Information on ingredients

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	-	-

### 3.0 Hazards identification

Potential Health Effects

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

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.



Product HP 92298X

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## 8.0 Exposure controls / personal protection

### Exposure Limits For Toner:

USA OSHA (TWA <sup>5</sup> )/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)
DFG (MAK):	6 mg/m <sup>3</sup> (Feinstaubkonzentration)
(Also refer to Section 2.)	
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:	Stable
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**

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.**