

**1.0 Preparation and company identity**

Identification of the preparation

**HP Laser Jet Cartridge 92291A/X**

Company identification

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

Telephone number

**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 3Si, 4Si, or 4Si MX LaserJet printer.**

Ingredients

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

**3.0 Hazards identification**

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.**

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.**

8.0	Exposure controls / personal protection
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Exposure Limits For Toner:	
USA OSHA (TWA <sup>5</sup> )/PEL):	<b>15 mg/m<sup>3</sup> (Total Dust)</b> <b>5 mg/m<sup>3</sup> (Respirable Fraction)</b>
ACGIH (TWA/TLV):	<b>10 mg/m<sup>3</sup> (Inhalable Particulate)</b> <b>3 mg/m<sup>3</sup> (Respirable Particulate)</b> <b>6 mg/m<sup>3</sup> (Feinstaubkonzentration)</b>
DFG (MAK): (Also refer to Section 2.)	
Respiratory Protection:	<b>Not required under intended use.</b>
Ventilation:	<b>Good general ventilation should be sufficient under intended use.</b>
Protective Gloves:	<b>Not required under intended use.</b>
Eye Protection:	<b>Not required under intended use.</b>
Other Protective Equipment:	<b>Not required under intended use.</b>

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

10.0	Stability and reactivity
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Stability:	<b>Stable</b>
Incompatibility:	<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.</b>

11.0 Toxicological information

Acute Toxicity:

Ingestion: **LD<sub>50</sub>: ori-rat>5000 mg/kg, not harmful.**  
Eye Contact: **Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.**  
Skin Contact: **Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.**  
Chronic Toxicity: **No data available.**

Other Toxicity Data:

Mutagenicity: **Negative, does not indicate mutagenic potential, (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**



15.0 Regulatory information

Chemicals Required to Report Under

Sara Title III Section 313 (USA): **None**

Proposition 65 (California) **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

**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.**