



## Material Safety Data Sheet

Issue date: May 17, 1999

5C 304

## 1.0 Preparation and company identity

Identification of the preparation

HP Laser Jet Cartridge C3909A

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 an HP LaserJet 5Si, HP LaserJet 5Si MX, HP LaserJet 5 Si Mopier, HP LaserJet 8000, HP LaserJet 8000N, HP LaserJet 8000DN, or HP Mopier 240 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

**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:** None currently known

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 chemicals**

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****Exposure Limits For Toner:**

USA OSHA (TWA )/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**

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 - 1.8</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**

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>: > 5000mg/kg (rats)**  
Eye Contact: **Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.**  
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 Proposition 65 (California).**

**Directive, or**

**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**

<b>15.0 Regulatory information</b>
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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**

Special Provisions in Relation to Protection of Man or the Environment (EC):

Regulation (EEC) 2455/92:

**Not regulated.**

Directive 76/769/ECC:

**Not regulated.**

Other:

**None**

<b>16.0 Other information</b>
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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.**