



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	HP LaserJet Q5949A-X-XC-XD Print Cartridge
Use of the preparation	This product is a toner preparation that is used in HP LaserJet 1160/1320/3390 series printers.
Revision Date	15-Dec-2007
Product code(s)	Q5949A-X-XC-XD
Company identification	Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN
Emergency telephone number	
Poison Information Center	0207771 5307
Hewlett-Packard health effects line	
(Toll-free within the US)	1-800-457-4209
(Direct)	1-503-494-7199
General information telephone number	
	1 344 36-0000
(Toll-free within the US)	1-800-474-6836
(Direct)	1-208-323-2551
Email	hpcustomerinquiries@hp.com

2. HAZARDS IDENTIFICATION

Acute health effects	
Skin contact	Unlikely to cause skin irritation.
Eye contact	May cause transient slight irritation.
Inhalation	Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.
Ingestion	Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.
Potential health effects	
Routes of exposure	Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.
Chronic health effects	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	None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.
Physical hazards	Not classified as a physical hazard.
Health hazards	Not classified as a health hazard.
Environmental hazards	Not classified as an environmental hazard.
Other information	This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Styrene acrylate copolymer	Trade secret	45 - 55		



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Iron oxide	1317-61-9	40 - 50	215-277-5
Amorphous silica	7631-86-9	1 - 2	418-260-2

4. FIRST AID MEASURES

Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

5. FIRE-FIGHTING MEASURES

Flash point and method	Not applicable
Fire fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Suitable extinguishing media	CO ₂ , water, or dry chemical
Extinguishing media which must not be used for safety reasons	None known.
Unusual fire & explosion hazards	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Hazardous combustion products	Carbon monoxide and carbon dioxide.
Specific methods	None established.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Minimize dust generation and accumulation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling	Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.
Storage	Keep out of the reach of children. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Germany

Components	CAS #	TWA	MAK	Ceiling
Amorphous silica	7631-86-9	4 mg/m ³	4 mg/m ³	Not established

Switzerland

Components	CAS #	TWA	STEL	
Amorphous silica	7631-86-9	4 mg/m ³	Not established	



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United Kingdom

Components	CAS #	TWA	STEL
Amorphous silica	7631-86-9	6 mg/m ³	18 mg/m ³

Occupational exposure standards

Personal exposure limit 15

Additional exposure data USA OSHA (TWA/PEL): 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m³ (Inhalable Particulate), 3 mg/m³ (Respirable Particulate)

UK WEL: 10 mg/m³ (Respirable Dust), 5 mg/m³ (Inhalable Dust)

United Kingdom - Workplace Exposure Limits (WELs) - STELs

Amorphous silica 7631-86-9 18 mg/m³ STEL (inhalable dust); 7.2 mg/m³ STEL (respirable dust)

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

Amorphous silica 7631-86-9 6 mg/m³ TWA (inhalable dust); 2.4 mg/m³ TWA (respirable dust)

Personal protective equipment

General No personal respiratory protective equipment required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Physical state	Not available
Form	solid
Colour	Black
Odour	Slight plastic odor
Odor threshold	Not available
pH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not flammable
Vapour pressure	Not applicable
Relative density	Not available
Solubility in water	Negligible in water. Partially soluble in toluene and xylene.
Partition coefficient (n-octanol/water)	Not available
Viscosity	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Melting point	Not available



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Freezing point	Not available
Auto-ignition temperature	Not applicable
Specific gravity	1.4 - 1.8 (H ₂ O = 1)
Softening point	100 - 150 °C (212 - 302 °F)

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
Conditions to avoid	Imaging Drum: Exposure to light
Materials to avoid	Not available
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s		
Iron oxide	1317-61-9	Oral LD50 Rat: >10000 mg/kg
Toxicology Data - Selected LD50s and LC50s		
Amorphous silica	7631-86-9	Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Oral toxicity	LD50/oral/rat >2000mg/kg, Not harmful. (OECD 401)
	Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Eye irritation	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
Chronic toxicity	No information available.
Sensitisation	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
Carcinogenicity	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Reproductivity	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).
Further information	Complete toxicity data are not available for this specific formulation. Refer to Section 3 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Other adverse effects	This product has not been tested for ecological effects.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.
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HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.



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Waste from residues / unused products Not available
Contaminated packaging Not available

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

General

Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

15. REGULATORY INFORMATION

International regulations

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

Labelling

Contains

Amorphous silica, Iron oxide, Styrene acrylate copolymer

16. OTHER INFORMATION

Manufacturer information

Hewlett-Packard Company
11311 Chinden Boulevard
Boise, ID 83714 USA

List of relevant R phrases

United Kingdom - Workplace Exposure Limits (WELs) - STELs

Amorphous silica 7631-86-9 18 mg/m³ STEL (inhalable dust); 7.2 mg/m³ STEL (respirable dust)

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

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Other information

This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Issue date

15-Dec-2007

Revised sections

15. Regulatory information: US federal regulations



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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible exposure limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds