

1. Chemical Product and Company Identification

Material name HP LaserJet Q5949A-X-XC-XD Print Cartridge

Use of the preparation This product is a toner preparation that is used in HP LaserJet 1160/1320/3390/3392 series

printers.

Version # 10

Revision date 04-May-2008

Manufacturer information Hewlett-Packard Company

11311 Chinden Boulevard Boise, ID 83714 USA

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 May 03, 2008

2. Hazards Identification

Acute health effects

Skin contactUnlikely 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, 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.

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	
Styrene acrylate copolymer	Trade Secret	45 - 55	
Iron oxide	1317-61-9	40 - 50	
Amorphous silica	7631-86-9	1 - 3	



4. First Aid Measures

First aid procedures

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.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Inhalation Move person to fresh air immediately. 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

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

Flammable properties Like most organic material in powder form, toner can form explosive dust-air mixtures when

finely dispersed in air.

Extinguishing media

Suitable extinguishing

media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

Like most organic material in powder form, toner can form explosive dust-air mixtures when

finely dispersed in air.

Protection of firefighters

Protective equipment and precautions for

firefighters

If fire occurs in the printer, treat as an electrical fire.

Special firefighting

procedures

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.

Other information Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder

with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance

with federal, state, and local regulations.

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. Store away from strong

oxidizers. Keep tightly closed and dry.

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8. Exposure Controls/Personal Protection

Exposure guidelines 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)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV):

10 mg/m3

Personal protective equipment

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

9. Physical & Chemical Properties

Fine powder **Appearance**

Color Black

Odor Slight plastic odor **Odor threshold** Not available

Physical state Not available

solid **Form**

рH Not applicable **Melting point** Not available Freezing point Not available **Boiling point** Not applicable Flash point Not applicable Not applicable **Evaporation rate Flammability** Not available. Not available

Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not applicable Vapor pressure Vapor density Not applicable

Specific gravity 1.4 - 1.8 (H2O = 1)

Relative density Not available

Solubility in water Negligible in water. Partially soluble in toluene and xylene.

Not flammable

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature Not applicable **Decomposition temperature** Not available

212 - 302 °F (100 - 150 °C) Softening point

Viscosity Not applicable



10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage conditions.

Conditions to avoid Imaging Drum: Exposure to light

Incompatible materials Strong oxidizers

Hazardous decomposition

products

Carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Oral toxicity LD50/oral/rat >2000 mg/kg, Not harmful. (OECD 401)

Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Inhalation toxicity No information available.

Not classified for acute inhalation 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.

Sensitization Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA

HCS (US).

Chronic toxicity No information available.

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)

Reproductive toxicity Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop.

65, and DFG (Germany).

12. Ecological Information

Ecotoxicity 96.00 Hours, LL50 > 1000 mg/l, rainbow trout

Persistence and degradability Not available

13. Disposal Considerations

Disposal instructionsDo 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.

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

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this service is available in your location, please visit http://www.hp.com/recycle.

14. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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15. Regulatory Information

US federal regulations US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

No

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.

16. Other Information

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Issue date May 3 2008 6:59PM

Revision 10

Replaces sheet dated Dec 15 2007 9:14AM

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Section 1 above and may not meet regulatory requirements in other countries.

MSDS sections updated 1. Chemical Product and Company Identification: Use of the preparation

7. Handling and Storage: Storage

8. Exposure Controls/Personal Protection: Exposure limit values

11. Toxicological Information: Inhalation toxicity 12. Ecological Information: Ecotoxicity effects 12. Ecological Information: Other information

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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