

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name HP LaserJet Q5945A-AC-YC Print Cartridge

Version # 02

 Issue date
 31-Jan-2013

 Revision date
 27-Sep-2013

**Product use**This product is a toner preparation that is used in HP LaserJet 4345mfp/M4345mfp series

multifunction products.

**Company identification** Hewlett-Packard Company

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**United States** 

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## 2. Hazards Identification

### **Potential health effects**

**Eyes** May cause transient slight irritation **Skin** Unlikely to cause skin irritation.

InhalationMinimal respiratory tract irritation may occur with exposure to large amounts of toner dust.IngestionLow acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Other hazards This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive

1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

to EU, IARC, MAK, NTP, OSHA or ACGIH.

# 3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
Iron oxide	1317-61-9	<50
Polyester resin	Trade Secret	<50
Amorphous silica	7631-86-9	<2

# 4. First Aid Measures

**General advice** No information

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 with water. Drink one to two glasses of water. If symptoms occur, consult a

physician.

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MSDS US

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5. Fire Fighting Measures

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.

Fire fighting

equipment/instructions

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

Specific methods

None established.

**Hazardous combustion** 

products

Carbon monoxide and carbon dioxide.

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. If a vacuum is used,

> the motor must be rated as dust explosion-proof. Clean remainder with a damp cloth or vacuum cleaner. 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.

8. Exposure Controls / Personal Protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components **Type Value** Amorphous silica (CAS **TWA** 6 mg/m3

7631-86-9)

**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

**Engineering controls** Use in a well ventilated area.

Personal protective equipment

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

9. Physical & Chemical Properties

**Appearance** Fine powder **Physical state** Solid. Form solid Color Black.

Odor Slight plastic odor рH Not applicable Vapor pressure Not applicable **Boiling point** Not applicable Melting point/Freezing point Not available.

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**Solubility (water)** Negligible in water. Partially soluble in toluene and xylene.

Specific gravityNot available.Flash pointNot applicableViscosityNot applicablePercent volatileNegligible

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

**VOC** Not applicable

**Other information** No information available

Other data

**Decomposition** >= 392 °F (>= 200 °C)

temperature

## 10. Chemical Stability & Reactivity Information

Chemical stabilityStable under normal storage conditions.Conditions to avoidImaging 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

# **Toxicological data**

Components Species Test Results

Amorphous silica (CAS 7631-86-9)

**Acute** 

Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

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

HCS (US).

**Chronic effects** 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).

Serious eye damage/eye

irritation

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

**Mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

**Reproductive effects**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 2 for potential health effects and Section 4 for first aid measures.

## 12. Ecological Information

### **Ecotoxicological data**

Product Species Test Results

Q5945A-AC-YC

**Aquatic** 

Fish LL50 Rainbow Trout > 1000 mg/l, 96 Hours

**Ecotoxicity** LL50: > 1000 mg/l, Rainbow Trout, 96.00 Hours

Persistence and degradability Not available.

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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.

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.

## 14. Transport Information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

UN number UN2807

UN proper shipping name

Magnetized Material

**IMDG** 

Not regulated as dangerous goods.

#### **RID**

Not regulated as dangerous goods.

### **Further information**

14 or more of these cartridges shipped together in a single package (e.g., box, container), by air, are regulated as a magnetized material. These requirements do not apply to single or dual pack cartridges contained in an original HP package and shrink wrapped on a pallet for shipment by air.

## 15. Regulatory Information

# **US federal regulations**

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

under TSCA.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### **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

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous chemical

No

### Other 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.

State regulations

# **US. Massachusetts RTK - Substance List**

Not regulated.

### **US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

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### **US. Rhode Island RTK**

Not regulated.

16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

**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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

Issue date 31-Jan-2013

This data sheet contains changes from the previous version in section(s):

Hazards Identification: Other hazards

Manufacturer information Hewlett-Packard Company

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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

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