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MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Material name HP LaserJet Q2610 A-D-AC Print Cartridge
Use of the preparation This product is a toner preparation that is used in HP LaserJet 2300 series printers.
Version # 06
Revision date 15-Dec-2007
Product code(s) Q2610A-D-AC
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 Dec 15, 2007

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, eye contact and inhalation.
Chronic health effects Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.
Carcinogenicity 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.
Other information None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.
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 |
|---------------------|--------------|-------------|
| Polyester resin | Trade Secret | 40 - 50 |
| Iron oxide | 1317-61-9 | 40 - 50 |
| Amorphous silica | 7631-86-9 | 1 - 2 |



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1. 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 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. 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 in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.



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3. 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

Appearance

Fine powder

Color

Black

Odor

Slight plastic odor

Odor threshold

Not available

Physical state

Not available

Form

solid

pH

Not applicable

Melting point

Not available

Freezing point

Not available

Boiling point

Not applicable

Flash point

Not applicable

Evaporation rate

Not available

Flammability

Not available.

Flammability limits in air, upper, % by volume

Not available

Flammability limits in air, lower, % by volume

Not applicable

Vapor pressure

Not applicable

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.

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

No data available

Decomposition temperature

Not available

Softening point

212 - 302 °F (100 - 150 °C)

Viscosity

Not applicable

Chemical Stability & Reactivity Information

Chemical stability

Stable under normal storage conditions.



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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)

Inhalation toxicity

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

Eye irritation

LC50:inh/rat >5 mg/L/4 hrs., Not harmful.

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).

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Amorphous silica

7631-86-9 respiratory system, eyes

12. Ecological Information

Persistence and degradability

Not available

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. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

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



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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.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List
Amorphous silica 7631-86-9 Present
U.S. - New Jersey - Right to Know Hazardous Substance List
Amorphous silica 7631-86-9 sn 1655

16. Other Information

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Issue date

Dec 15 2007 2:34AM

Revision

6

Replaces sheet dated

Oct 2 2007 10:16AM

Disclaimer

This [Material] Safety Data Sheet 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 (M)SDS 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.

MSDS sections updated

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 |