



Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the Preparation

HP LaserJet Print Cartridge Q2610A/D

Company Identification

Hewlett-Packard Company
11311 Chinden Boulevard
Boise, Idaho 83714
United States

Emergency Telephone Number Hewlett-Packard Health Effects Line

1-800-457-4209 (USA and Canada)
503-494-7199 (USA direct)
Singapore: +001-800-332-13321

General Information Telephone Number

208-323-2551 (USA direct)

Local Contact Information

Ireland

Liffey Park Technology Park
Barnhall Road Leixlip, Co.
Kildare, Ireland
Phone: 01 6150000

United Kingdom

Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	N/A

2.0 Composition/Information on Ingredients

This product is a toner preparation that is used in Hewlett-Packard LaserJet 2300 series printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Polyester Resin	-	-	45 - 55	-
Iron Oxide	1317-61-9	215-277-5	40 - 50	-
Amorphous silica	7631-86-9	231-545-4	1 - 2	-

3.0 Hazard Identification

The preparation is not classified according to EU Directive 1999/45/EC



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3.1 Routes of Exposure Inhalation, Ingestion, skin and eyes.

3.2 Acute Health Hazards

Inhalation: Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.
Ingestion: Ingestion is not applicable route of entry for intended use.
Skin: Unlikely to cause skin irritation.
Eyes: May cause transient slight irritation.

3.3 Chronic Health Hazards 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.

3.4 Carcinogenicity Refer to section 11.

4.0 First Aid Measures

Inhalation: Move person to fresh air immediately. If symptoms occur, consult a physician.
Ingestion: Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
Skin: Wash affected areas thoroughly with soap and water. If symptoms occur, consult a physician.
Eyes: Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 5 minutes. If symptoms occur, consult a physician.

5.0 Fire Fighting Measures

Extinguishing media CO₂, water, dry chemical
Unsuitable Extinguishing Media None known
Special Firefighting Procedures None
Unusual fire and explosion hazards Toner material, like most organic material in powder form, is capable of creating a dust explosion.
Auto-ignition temperature No data available
Flashpoint (method) Not applicable
Hazardous Combustion Products CO, CO₂



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6.0 Accidental release measures

- 6.1 Spill or leak procedures** Avoid breathing dust. Minimize the release of particles. 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. Dispose of waste toner in accordance with local requirements.
- 6.2 Environmental precautions** Do not discharge into drains (See also section 13 Disposal Considerations).

7.0 Handling and Storage

- Advice 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 advise on storage compatibility** Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure control/ personal protection

8.1 Exposure Limit Values

- 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)
- TRGS 900 (Luftgrenzwert):** 10 mg/m³ (Einatembare Partikel)
3 mg/m³ (Alveolengängige Fraktion)
- Ingredients** USA OSHA (TWA/PEL), ACGIH (TWA/TLV)
Amorphous Silica 20 mppcf 80(mg/m³)/%SiO₂, 10 mg/m³ (TWA)

8.2 Exposure Controls

- Respiratory protection** Not required under intended use.
- Ventilation** Good general ventilation should be sufficient under intended use.
- Protective gloves** Not required under intended use.
- Eye protection** Not required under intended use.
- Other protective equipment** Not required under intended use.

9.0 Physical and chemical properties

- pH** Not applicable
- Boiling point** Not applicable
- Flash point** Not applicable
- Melting point** 100 - 150°C (Softening Point)
- Flammability** Non-flammable solid (according to test methods of EU Directive 92/69/EEC, A10 Flammability (Solids))



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Explosive properties	Toner material, like most organic material in powder form, is capable of creating a dust explosion.
Oxidizing properties	No data available
Vapor Pressure	Not applicable
Specific gravity (H₂O=1)	1.4 - 1.8
Solubility in water	Negligible
Solubility in organic solvents	Partially soluble in toluene and xylene.
Partition coefficient	Not applicable
Viscosity	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Physical state	Fine powder
Color	Black
Odor	Slight plastic odor
Other	Decomposition temperature: > 200 °C

10.0 Stability and reactivity

Stability	Stable under normal storage conditions
Incompatibilities	Strong oxidizers
Hazardous decomposition products	CO, CO ₂
Hazardous polymerization	Will not occur

11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

Inhalation:	Not available
Ingestion:	LD ₅₀ : orl-rat > 2000 mg/kg, not harmful.
Eye Contact:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.
Skin Contact:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.
Chronic Toxicity:	No data available.
Sensitization:	Not classified as a sensitizer according to EU Directive 67/548/EEC and OSHA HCS (US).
Mutagenicity:	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Carcinogenicity:	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
Reproductive Toxicity:	Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).



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Other: None known

12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems.

13.0 Disposal considerations

Do not put toner or toner cartridge into fire; heated toner may cause severe burns. 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 regulation.

14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

UN Number	None
Class	None
Proper Shipping Name	None
Packing Group	None
Special Precautions	None

15.0 Regulatory information

US EPA TSCA Inventory	All ingredients are listed on TSCA inventory
US EPA TSCA 12(b)	None
US California Proposition 65	None
EU Notification	All components in this product are compliant with EU Chemical Inventory regulations.
EU R&S Phrase Information	No European Risk Phrases (labeling data)
Dangerous Components (CAS No.) wt%	None
USA Labeling	
Symbol	Not required
Hazard Warning	Not required
Safety Advice	Not required
Hazardous Component(s)	None

16.0 Other information

Date Prepared:	November 1, 2003
HP-DMS Document Control Number:	09000de78025c054-eng
Revision Information:	This replaces all prior versions of the MSDS.
EU Information	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200).



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DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.

Revision History

Revision	Date	Revision Description	Originator
1.1	April 1, 2003	Section 2.0 Composition/Information on Ingredients: This product is a black toner preparation that is used in Hewlett-Packard Color LaserJet 2500 and 1500 series printers."	Dennis McGavis
2.0	August 20, 2003	<p>This represents a leveraged toner formulation into a new printer. This toner cartridge product number has not changed. The update to this MSDS is to change the content in section 8.1. The following describes the changes in detail:</p> <p>Section 8.1 Exposure control/personal protection:</p> <p>Ingredients USA OSHA (TWA/PEL), ACGIH (TWA/TLV)</p> <p>Amorphous Silica 20 mppcf 80(mg/m³)/%SiO₂, 10 mg/m³ (TWA)"</p> <p>Section 8.1 Exposure control/personal protection:</p> <p>Amorphous Silica: USA OSHA (TWA/PEL) - 20 mppcf, 80(mg/m³)/%SiO₂ ACGIH (TWA/TLV) - 10 mg/m³ DFG (MAK) - 4 mg/m³ (Respirable Fraction)"</p> <p>Section 16.0 Other Information: Date Prepared: April 1, 2003"</p> <p>Section 16.0 Other Information: Date Prepared: August 20, 2003</p>	Dennis McGavis
3.0	November 1, 2003	This represents a new packaged offering with the same toner cartridge in a twin-pack. The toner cartridge product number Q2610D indicates it is the twin-pack (a.k.a.	Dennis McGavis



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Revision	Date	Revision Description	Originator
		<p>Release of new packaged cartridge twin-pack (a.k.a. dual-pack) using the same toner cartridge supply as the previous cartridge for the HP LaserJet 2300 series printers. The update to this MSDS is to change the content in section 1.0 and section 16.0. The following describes the changes in detail:</p> <p>New Rev 3.0 Version: “Section 1.0 Product and Company Identification:</p> <p>Identification of the Preparation HP LaserJet Print Cartridge Q2610A/D</p> <p>New Rev 3.0 Version: “Section 16.0 Other Information: Date Prepared:</p> <p>November 1, 2003”</p>	