



Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the preparation **HP Color LaserJet Cyan Print Cartridge Q3971A**

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

Emergency telephone number 1-800-457-4209 (USA and Canada)
Hewlett-Packard Health Effects Line Intl: +1-503-494-7199 (all other areas)
Singapore: +001-800-332-13321

General information telephone number 1-208-323-2551 (USA and Canada)
Intl: +1-208-323-2551 (all other areas)

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 cyan toner preparation that is used in Hewlett-Packard Color LaserJet 2550 series printers. This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, and as amended.

| Component/Substance | CAS Number | EU Number | % by Weight | Risk Phrases |
|----------------------------|------------|-----------|---------------------------|--------------|
| Styrene Acrylate Copolymer | - | - | 75 - 85 | - |
| Wax | - | - | 5 - 10 | - |
| Copper Compound | - | - | 1 - 5 (as Cu: 0.1-0.5) | - |
| Amorphous silica | 7631-86-9 | 231-545-4 | 1 - 2 | - |



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3.0 Hazard Identification

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| Routes of Exposure | Inhalation, Ingestion, skin and eyes. |
| Acute Health Hazards | |
| Inhalation: | Respiratory tract irritation may occur with exposure to large amounts of dust. |
| Ingestion: | Low acute toxicity. Ingestion is a minor route of entry for intended use of this product. |
| Skin: | Unlikely to cause skin irritation. |
| Eyes: | May cause transient slight irritation. |
| 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. |
| Carcinogenicity | Refer to section 11. |

4.0 First Aid Measures

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| Inhalation: | Move person to fresh air immediately. If symptoms occur, consult a physician. |
| Ingestion: | Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician immediately. |
| Skin: | Wash affected areas with soap and water. If irritation persists, consult a physician. |
| Eyes: | Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 5 minutes or until particles are removed. If irritation persists, consult a physician. |

5.0 Fire Fighting Measures

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| Extinguishing media | CO ₂ , water, dry chemical |
| Unsuitable Extinguishing Media | None |
| Special Firefighting Procedures | None |
| Unusual fire and explosion hazards | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| Auto-ignition temperature | Not available |
| Flashpoint (method) | Not applicable |
| Hazardous Combustion Products | CO ₂ , CO |



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6.0 Accidental release measures

Spill or leak procedures Avoid breathing dust. Minimize the release of particles. Slowly 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 waste toner in accordance with local requirements.

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. Use with adequate ventilation. 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

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)

DFG MAK: 4 mg/m³ (Einatembare Partikel)

1.5 mg/m³ (Alveolengängige Fraktion)

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

ACGIH TLV - 10 mg/m³ (TWA)

DFG MAK – 4 mg/m³ (Inhalable fraction)

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



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| 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 and as amended, A10 Flammability (Solids)) |
| 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) | 1.0 - 1.2 |
| 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 | Cyan |
| Odor | Slight plastic odor |
| Other | Decomposition Temperature: >200 °C |

10.0 Stability and reactivity

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

11.0 Toxicological information

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

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|--------------------------|---|
| Inhalation: | LC ₅₀ :inh-rat>5mg/L/4 hrs., not harmful. |
| 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 and as amended. |
| Skin Contact: | Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended. |
| Chronic Toxicity: | No data available. |
| Sensitization: | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US). |
| Mutagenicity: | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) |



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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 and as amended, California Prop. 65, or DFG (Germany).

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

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

15.0 Regulatory information

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| US EPA TSCA | All chemical substances in this product comply with all rules or orders under TSCA. |
| 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 Hazard Label (1999/45/EC): | This product does not require a label under EU Directive 1999/45/EC and as amended. |
| Special Precautions under 1999/45/EC, Annex V | None |
| USA Labeling Symbol | Not required |
| Hazard Warning | Not required |
| Safety Advice | Not required |
| Hazardous Component(s) | None |



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16.0 Other information

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EU & US 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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