



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation HP C3102A Cyan Toner

Use of the preparation This product is a cyan toner preparation that is used in HP Color LaserJet/Color LaserJet 5/5M series printers.

Revision Date 07-30-2008

Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN

Emergency telephone number

Poison Information Center 0207771 5307

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199

General information telephone number

1 344 36-0000

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email hpcustomerinquiries@hp.com

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 and 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.

Physical hazards Not classified as a physical hazard.

Health hazards Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

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	EU number	EU classification
polyester	Trade Secret	< 95		
Pigment	Trade Secret	< 12		
Wax-1	Trade Secret	< 5		
Wax-3	Trade Secret	< 5		
Amorphous silica	7631-86-9	< 1		
Titanium dioxide	13463-67-7	< 1		



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4. FIRST AID MEASURES

Inhalation	Move person to fresh air immediately. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.
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
Fire fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Suitable extinguishing media	CO2, water, or dry chemical
Extinguishing media which must not be used for safety reasons	None known.
Unusual fire & explosion hazards	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Hazardous combustion products	Carbon monoxide and carbon dioxide.
Specific methods	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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Belgium

Components	CAS #	TWA	STEL
Titanium dioxide	13463-67-7	10 mg/m ³	Not established

Denmark

Components	CAS #	TWA	Ceiling
Titanium dioxide	13463-67-7	6 mg/m ³	Not established



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France

Components	CAS #	TWA (VME)	STEL (VLE)
Titanium dioxide	13463-67-7	10 mg/m3	Not established

Germany

Components	CAS #	TWA	MAK	Ceiling
Amorphous silica	7631-86-9	4 mg/m3	4 mg/m3	Not established
Titanium dioxide	13463-67-7	Not established	1.5 mg/m3	Not established

Netherlands

Components	CAS #	TWA (MAC)	STEL	Ceiling
Titanium dioxide	13463-67-7	10 mg/m3	Not established	Not established

Spain

Components	CAS #	TWA (VLA-ED)	STEL (VLA-EC)
Titanium dioxide	13463-67-7	10 mg/m3	Not established

Sweden

Components	CAS #	TLV (LLV)	STEL (STV)	Ceiling (CLV)
Titanium dioxide	13463-67-7	5 mg/m3	Not established	Not established

Switzerland

Components	CAS #	TWA	STEL
Amorphous silica	7631-86-9	4 mg/m3	Not established
Titanium dioxide	13463-67-7	3 mg/m3	Not established

United Kingdom

Components	CAS #	TWA	STEL
Amorphous silica	7631-86-9	6 mg/m3	18 mg/m3
Titanium dioxide	13463-67-7	10 mg/m3	30 mg/m3



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Additional exposure data

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

UK WEL: 10 mg/m³ (Respirable Dust), 5 mg/m³ (Inhalable Dust)

Personal protective equipment

General

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Physical state	Not available.
Form	solid
Colour	Cyan
Odour	Slight plastic odor
Odour threshold	Not available.
pH	not applicable
Boiling point	not applicable
Flash point	not applicable
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not flammable
Vapour pressure	not applicable
Relative density	Not available.
Solubility in water	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Viscosity	not applicable
Vapour density	not applicable
Evaporation rate	Not available.
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	not applicable
Specific gravity	1.1 (H ₂ O = 1)
Softening point	140 °C (284 °F)

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
Materials to avoid	Not available.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

Component analysis - LD50	Amorphous silica: LD50:orl-rat: 3160 mg/kg, not harmful. Ames test negative.
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Inhalation toxicity	LC50: inh/rat > 890 mg/l/4 hrs., (OECD 403). Not classified for Acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Oral toxicity	LD50/oral/rat >5000mg/kg; Not harmful. (OECD 401). Not classified for Acute oral 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.
Chronic toxicity	No information available.
Sensitisation	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
Carcinogenicity	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Amorphous silica (7631-86-9)
Titanium dioxide (13463-67-7)

Inadequate data.
Inadequate data.

Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Reproductivity	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 3 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Other adverse effects	This product has not been tested for ecological effects.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Do not put Toner into fire; Toner may cause severe burns. Dispose of in compliance with federal, state, and local regulations.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

General

Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

15. REGULATORY INFORMATION

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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.
Labelling	
Contains	Amorphous silica, Pigment, polyester, Titanium dioxide, Wax-1, Wax-3



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16. OTHER INFORMATION

Manufacturer information	Hewlett-Packard Company 11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209
Other information	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.
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.
Issue date	07-30-2008
Revised sections	HAZARDS IDENTIFICATION: Other information TOXICOLOGICAL INFORMATION: Inhalation toxicity
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