

SAFETY DATA SHEET

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

Identification of the

preparation

HP Color LaserJet CE321A Cyan Print Cartridge

Use of the

Substance/Preparation

This product is a cyan toner preparation that is used in HP LaserJet Pro CM1415,CP1525

series printers.

Version #

01

Revision date

04-May-2011

Company identification

Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 1 344 36-0000

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 **HP Customer Care Line**

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

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

Acute health effects

Skin contact Unlikely to cause skin irritation. **Eve contact** May cause transient slight irritation.

Inhalation Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.

Use of this product as intended does not result in inhalation of excessive amounts of 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.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly Carcinogenicity

carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to

titanium dioxide is much lower.

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

1999/45/EC, as amended.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC)

1907/2006.

Classification Not classified.

Physical hazards Not classified as a physical hazard. **Health hazards** Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification	
Styrene acrylate copolymer	Trade secret	< 85			
Pigment	Trade secret	< 10			
Wax	Trade secret	< 10			

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Amorphous silica	7631-86-9	< 3	231-545-4
Titanium dioxide	13463-67-7	< 1	236-675-5

4. FIRST AID MEASURES

Inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

Skin contactWash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

CO2, water, or dry chemical

Eye contactDo 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

Fire fighting

equipment/instructions

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

Suitable extinguishing media

None known.

Extinguishing media which must not be used for safety

reasons

Unusual fire & explosion

hazards

Like most organic material in powder form, toner can form explosive dust-air mixtures when finely

dispersed in air.

Specific methods None established.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Minir

Minimise 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. 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 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. Keep tightly closed and dry. Store away from strong oxidizers.

Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

United Kingdom

Components	Туре	Value	Form
Titanium dioxide (13463-67-7)	TWA	4.0000 mg/m3	Respirable.
		10.0000 mg/m3	Inhalable

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

TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)

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

Exposure controls Use in a well ventilated area.

Material name: CE321A SDS UK

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Fine powder **Appearance**

Physical state Solid **Form** solid Color Cyan

Odor Slight plastic odor **Odour threshold** Not available. pН Not applicable **Boiling point** Not applicable Flash point Not applicable Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air, lower, % by volume

Not flammable

Not applicable Vapor pressure Relative density Not available.

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

Partition coefficient

Not available

(n-octanol/water)

Not applicable **Viscosity** Vapor density Not available. **Evaporation rate** Not applicable **Melting point** Not available. Freezing point Not available. **Auto-ignition temperature** Not applicable Specific gravity 1 - 1.2 (H2O = 1)

Softening point 80 - 130 °C (176 - 266 °F)

Percent volatile 0 % estimated VOC Not available.

Other information Decomposition temperature: > 200 ° C

10. STABILITY AND REACTIVITY

Conditions to avoid Imaging Drum: Exposure to light **Hazardous decomposition** Carbon monoxide and carbon dioxide.

products

Stability

Stable under normal storage conditions.

Materials to avoid Strong oxidizers **Hazardous polymerization** Will not occur.

11. TOXICOLOGICAL INFORMATION

Oral toxicity LD50/oral/rat >2000mg/kg; (OECD 401); Not harmful.. Not classified for acute oral toxicity

according to EU Directive 67/548/EEC and 1999/45/EC.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly Carcinogenicity

carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

None of the other ingredients in this preparation are classified as carcinogens according to

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

No information available. Inhalation toxicity

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and

1999/45/EC.

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.

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CE321A Version #: 01 Revision date: 03-May-2011 Print Date: 04-May-2011 Skin sensitization 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.

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

HCS (US).

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

Reproductivity Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65,

and DFG (Germany).

Complete toxicity data are not available for this specific formulation **Further information**

Refer to Section 2 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicity LC50: > 100 mg/l, Fish, 96.00 Hours

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

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. REGULATORY INFORMATION

Labeling

Contains Amorphous silica, Pigment, Styrene acrylate copolymer, Titanium dioxide, Wax

Regulatory information 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.

16. OTHER INFORMATION

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-Packarc

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.

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

HAZARDS IDENTIFICATION: Carcinogenicity TOXICOLOGICAL INFORMATION: Carcinogenicity TRANSPORT INFORMATION: Further information

Manufacturer information Hewlett-Packard Company

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11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199

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

SDS UK

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

Material name: CE321A SDS UK