

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

HP Color LaserJet CE311A Cyan Print Cartridge

Product use This product is a cyan toner preparation that is used in HP Color LaserJet Pro CP1025 and HF

LaserJet Pro 100 Color MFP, HP LaserJet Pro 200 Color MFP series printers.

Version # 02

31-Oct-2011 **Revision date**

Company identification **Hewlett-Packard Company**

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United States

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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.

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

> 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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	< 85
Pigment	Trade Secret	< 10
Wax	Trade Secret	< 10

Material name: CE311A MSDS US 1/6 Amorphous silica 7631-86-9 < 3 Titanium dioxide < 1 13463-67-7

4. 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.

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

develops or persists.

Inhalation Move person to fresh air immediately. 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

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.

Protection of firefighters

Protective equipment and precautions for

firefighters

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

Specific methods None established.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

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. 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

Value

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.

Keep out of the reach of children. Keep tightly closed and dry. Store away from strong oxidizers. **Storage**

Store at room temperature.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Туре	Value
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m3

U.S. - OSHA

Components	Туре	Value	Form
Titanium dioxide (13463-67-7)	PEL	15.0000 mg/m3	Total dust.

Material name: CE311A MSDS US

 Components
 Type
 Value
 Form

 TWA
 10.0000 mg/m3
 Total dust.

U.S. - Tennessee

ComponentsTypeValueFormTitanium dioxide (13463-67-7)TWA10.0000 mg/m3Total dust.

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

Engineering controls Use in a well ventilated area.

Personal protective equipment

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

9. Physical & Chemical Properties

Appearance Fine powder

Color Cyan

Odor Slight plastic odor
Odor threshold Not available.

Physical state Solid Form solid

pH Not applicable

Melting point Not available.

Freezing point Not available.

Boiling point Not applicable

Flash point Not applicable

Evaporation rate Not applicable

Flammability limits in air,
upper, % by volume

Flammability limits in air,

lower, % by volume

Not flammable

Vapor pressureNot applicableVapor densityNot available.Specific gravity1 - 1.2 (H2O = 1)Relative densityNot available.

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

Auto-ignition temperature Not applicable **Decomposition temperature** Not available.

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

ViscosityNot applicablePercent volatile0 % estimatedVOCNot available.

Other information Decomposition temperature: > 200 ° C

10. Chemical Stability & Reactivity Information

Chemical stabilityStable under normal storage conditions.Conditions to avoidImaging Drum: Exposure to light

Incompatible materials Strong oxidizers

Material name: CE311A MSDS US

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; (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.

ACGIH Carcinogens

Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

IARC Monographs: Evidence of carcinogenicity in humans

Titanium dioxide (CAS 13463-67-7) Inadequate data.

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.

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).

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).

Symptoms and target organs Target Organs (NIOSH)

Titanium dioxide (CAS 13463-67-7) Respiratory system

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 aid measures.

12. Ecological Information

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

Persistence and degradability Not available.

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

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

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

CERCLA (Superfund) reportable quantity

None

Material name: CE311A MSDS US

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 No

hazardous chemical

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

Section 311 hazardous

chemical

No

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Titanium dioxide (CAS 13463-67-7) Listed.

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 accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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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 31-Oct-2011

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

Product and Company Identification: Alternate Trade Names

1. Product and Company Identification: Product use Composition / Information on Ingredients: Ingredients

Manufacturer information Hewlett-Packard Company

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Material name: CE311A MSDS U

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: CE311A MSDS US