

## MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name CE311A

**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.

**Company identification** Hewlett-Packard Japan, Ltd.

2-2-1 Ojima, Koto-ku, Tokyo, 136-8711 Japan

Telephone (+81) 3 6416-6660

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 Centre telephone number 0120-50-3024

## 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.

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.

**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
Styrene acrylate copolymer	Trade Secret	< 85
Pigment	Trade Secret	< 10
Wax	Trade Secret	< 10
Amorphous silica	7631-86-9	< 3
Titanium dioxide	13463-67-7	< 1

Company name: Hewlett-Packard Company Material name: CE311A MSDS JAPAN

12393 Version No.: 03 Revision date: 14-Apr-2012

4. FIRST AID MEASURES

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

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 Not applicable

**Extinguishing media** CO2, water, or dry chemical

Extinguishing media to avoid 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.

Special fire fighting

procedures

None established.

**Protection of fire-fighters** 

**Hazardous combustion** 

products

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

Carbon monoxide and carbon dioxide.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency measures

Minimise dust generation and accumulation.

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See also section 13 Disposal

considerations.

Clean-up methods and materials and containment

measures

Not available.

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

**Technical measures** 

Local and general

ventilation

Not available. Not available.

**Precautions** 

Not available.

Safe handling advice

Not available.

**Storage** 

**Technical measures** 

Not available.

Suitable storage

Not available.

conditions

Not available

**Incompatible materials** Safe packaging materials

Not available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Occupational exposure limits**

Japan OELs - JSOH

Components	Туре	Value	Form	
Titanium dioxide (13463-67-7)	TWA	4.0000 mg/m3	Total dust.	
		1.0000 mg/m3	Respirable dust.	

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

Material name: CE311A Company name: Hewlett-Packard Company MSDS JAPAN 2/5

12393 Version No.: 03 Revision date: 14-Apr-2012

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

**Engineering measures** Use in a well ventilated area.

**Personal protective equipment** 

**Respiratory protection** Not available. Not available. **Hand protection** Not available. Eye protection Skin and body protection Not available.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Solid **Form** solid Colour Cyan

Odour Slight plastic odor pН Not applicable Melting point/freezing point Not available. **Boiling point, initial boiling** Not applicable

point, and boiling range

Flash point Not applicable **Auto-ignition temperature** Not applicable Flammability limit - lower (%) Not flammable Flammability limit - upper (%) Not available. Vapour pressure Not applicable Vapour density Not available. **Evaporation rate** Not applicable Specific gravity 1 - 1.2 (H2O = 1)

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

**Partition coefficient** 

(n-octanol/water)

Not available

**Decomposition temperature** Not available. **Viscosity** Not applicable

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

Other data

Kinematic viscosity Not available. Kinematic viscosity temp Not available. Percent volatile 0 % estimated

Other information Decomposition temperature: > 200 ° C

# 10. STABILITY AND REACTIVITY

**Stability** Stable under normal storage conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Imaging Drum: Exposure to light

**Incompatible materials** Strong oxidizers

**Hazardous decomposition** 

products

Carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

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

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

Company name: Hewlett-Packard Company Material name: CE311A

12393 Version No.: 03 Revision date: 14-Apr-2012

**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.

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.

**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).

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

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicological data**

Product	Test results	
HP Color LaserJet CE311A Cyan Print Cartridge	LC50 Fish: > 100 mg/l 96.00 Hours	
Components	Test results	
Titanium dioxide (13463-67-7)	EC50 Water flea (Daphnia magna): > 1000 mg/l 48.00 hours	
	LC50 Mummichog (Fundulus heteroclitus): > 1000 mg/l 96.00 hours	

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

**Other hazardous effects** This product has not been tested for ecological effects.

#### 13. DISPOSAL CONSIDERATIONS

**Local disposal regulations** 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

**Industrial Safety and Health Law** 

**Substances subject to notification** 

Not regulated.

**Poisonous and Deleterious Substances Control Law** 

**Deleterious substances** 

Not regulated.

**Poisonous substances** 

Not regulated.

Specified poisonous substances

Not regulated.

PRTR and Promotion of Chemical Management Law, old regulated substances (Cabinet Order No. 328, 2004)

Specified class 1 substances (substance name and PRTR no.)

Not regulated.

Company name: Hewlett-Packard Company Material name: CE311A MSDS JAPAN

#### Class 1 substances (substance name and PRTR no.)

Not regulated.

Class 2 substances (substance name and PRTR no.)

Not regulated.

PRTR and Promotion of Chemical Management Law, new regulated substances (Cabinet Order No. 356, 2008)

Specified class 1 substances (substance name and PRTR no.)

Not regulated.

Class 1 substances (substance name and PRTR no.)

Not regulated.

Class 2 substances (substance name and PRTR no.)

Not regulated.

**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).

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.

Version number 03

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

Product and Company Identification: Alternate Trade Names CHEMICAL PRODUCT AND COMPANY IDENTIFICATION: Product use

Composition / Information on Ingredients: Ingredients

**Issue date** 14-Apr-2012 **Revision date** 14-Apr-2012

Manufacturer information Hewlett-Packard Company

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# **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: <value>** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Company name: Hewlett-Packard Company Material name: CE311A MSDS JAPAN