

## MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Identification of the

preparation

HP Color LaserJet CE322A Yellow Print Cartridge

**Product use**This product is a yellow toner preparation that is used in HP LaserJet Pro CM1415,CP1525 series

printers.

Version # 01

**Revision date** 09-Nov-2011

**Company identification** Hewlett-Packard Company

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**United States** 

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# 2. Hazards Identification

**Acute health effects** 

Skin contactUnlikely to cause skin irritation.Eye contactMay 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
Wax	Trade Secret	< 10
Pigment	Trade Secret	< 5

Material name: CE322A MSDS US

Amorphous silica 7631-86-9 < 3 Titanium dioxide 13463-67-7 < 1

#### 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: CE322A MSDS US

**Value** Components Type **Form** TWA 10.0000 mg/m3 Total dust.

**U.S. - Tennessee** 

**Components Type** Value **Form** 10.0000 mg/m3 Titanium dioxide (13463-67-7) TWA Total 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

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

Personal protective equipment

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

# 9. Physical & Chemical Properties

Fine powder **Appearance** Color Yellow

Odor Slight plastic odor **Odor threshold** Not available.

**Physical state** Solid **Form** solid

рH Not applicable **Melting point** Not available. Freezing point Not available. **Boiling point** Not applicable Not applicable Flash point **Evaporation rate** Not applicable Flammability limits in air, Not available. upper, % by volume

Flammability limits in air,

lower, % by volume

Not flammable

Vapor pressure Not applicable Vapor density Not available. 1 - 1.2 (H2O = 1)Specific gravity Relative density Not available.

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

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

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

Viscosity Not applicable **Percent volatile** 0 % estimated VOC Not available.

Other information Decomposition temperature: > 200 ° C

### 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under normal storage conditions. Conditions to avoid Imaging Drum: Exposure to light

**Incompatible materials** Strong oxidizers

Material name: CE322A MSDS US **Hazardous decomposition** 

products

Carbon monoxide and carbon dioxide.

products

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.

**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

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

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** No information available.

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)

Amorphous silica (CAS 7631-86-9)

Eyes

Respiratory system

Titanium dioxide (CAS 13463-67-7)

Respiratory system

Further information Comple

Complete toxicity data are not available for this specific formulation 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.

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.

Material name: CE322A MSDS US

15. Regulatory Information

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

under TSCA.

**CERCLA (Superfund) reportable quantity** 

None

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

No

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

**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.

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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** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Material name: CE322A MSDS US