# SAFETY DATA SHEET

1. Identification

**Product identifier** HP Color LaserJet CE321A Cyan Print Cartridge

Other means of identification Not available.

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

printers.

**Recommended restrictions** None known.

Company identification

HP

1501 Page Mill Road Palo Alto, CA 94304-1112

**United States** 

Telephone 650-857-5020

HP health effects line

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

(Direct) 1-760-710-0048 HP Customer Care Line

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

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	<b>CAS number</b>	%	
Styrene acrylate copolymer		Trade Secret	<85	
Pigment	Pigment	Trade Secret	<10	
Wax	Wax	Trade Secret	<10	
Amorphous silica	Amorphous silica	7631-86-9	<3	
Titanium dioxide		13463-67-7	<1	

## 4. First-aid measures

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

Material name: CE321A SDS US

**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.

Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a

physician.

Most important

symptoms/effects, acute and

delayed

Ingestion

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

**Specific hazards arising from** 

the chemical

Not applicable.

Special protective equipment

and precautions for

nt Not available.

firefighters

Fire-fighting

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

equipment/instructions
Specific methods

None established.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize dust generation and accumulation.

Methods and materials for containment and cleaning up

Not available.

**Environmental precautions** 

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

considerations.

## 7. Handling and storage

Precautions for safe 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.

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Conditions for safe storage,

including any incompatibilities

7631-86-9)

Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

away from strong oxidizers.

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.	
<b>US. ACGIH Threshold Limit Va</b>	lues			
Components	Туре	Value		
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3		
US. NIOSH: Pocket Guide to C	hemical Hazards			
Components	Туре	Value		
Amorphous silica (CAS	TWA	6 mg/m3		

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Material name: CE321A SDS US

12319 Version #: 04 Revision date: 12-Oct-2015 Issue date: 16-Apr-2015

**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

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)

**Appropriate engineering** 

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Not available. **Hand protection** Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

## 9. Physical and chemical properties

**Appearance** Fine powder **Physical state** Solid. Color Cyan

Odor Slight plastic odor **Odor threshold** Not available. Not applicable рH Melting point/freezing point Not available. Initial boiling point and Not applicable

boiling range

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not flammable

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure Not applicable

Solubility(ies)

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

**Partition coefficient** (n-octanol/water)

Not available.

**Auto-ignition temperature Decomposition temperature** 

Not applicable Not available. Not applicable

Other information

**Viscosity** 

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

Material name: CE321A SDS US 10. Stability and reactivity

**Reactivity** Not available.

**Chemical 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

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye

Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

**Respiratory sensitization**Based on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

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.

**Reproductive toxicity**Based on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

specific target organi toxicity

- single exposure

,

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**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 aid measures.

Components Species Test Results

Amorphous silica (CAS 7631-86-9)

**Acute** *Oral* 

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

# 12. Ecological information

#### **Ecotoxicity**

Product		Species	Test Results
CE321A			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 Hours

Material name: CE321A SDS US

12319 Version #: 04 Revision date: 12-Oct-2015 Issue date: 16-Apr-2015

Components Species Test Results

Titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours
Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot 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.

# 15. Regulatory information

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

under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

## **SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312** No

Hazardous chemical
Other federal regulations

Safe Drinking Water Act Not regulated.

(SDWA)

**US state regulations** 

#### **US. Massachusetts RTK - Substance List**

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

## **US. New Jersey Worker and Community Right-to-Know Act**

Titanium dioxide (CAS 13463-67-7)

Material name: CE321A SDS US

## **US. Pennsylvania Worker and Community Right-to-Know Law**

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

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

**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

# 16. Other information, including date of preparation or last revision

Issue date16-Apr-2015Revision date12-Oct-2015

Version # 04

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of HP. Data is the most

current known to HP 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.

Manufacturer information HP

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

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

#### **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 US

# SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CE322A Yellow Print Cartridge

Other means of identification Not available.

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

printers.

**Recommended restrictions** None known.

Company identification

HP 1501 Page Mill Road

Palo Alto, CA 94304-1112

**United States** 

Telephone 650-857-5020

HP health effects line

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

(Direct) 1-760-710-0048 HP Customer Care Line

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

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	emical name Common name and synonyms		%	
Styrene acrylate copolymer		Trade Secret	<85	
Wax	Wax	Trade Secret	<10	
Pigment	Pigment	Trade Secret	<5	
Amorphous silica	Amorphous silica	7631-86-9	<3	
Titanium dioxide		13463-67-7	<1	

## 4. First-aid measures

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

Material name: CE322A SDS US

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.

Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a

physician.

Most important

symptoms/effects, acute and

Not available.

delayed

Ingestion

# 5. Fire-fighting measures

Suitable extinguishing media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

Not available.

firefighters

**Specific methods** 

Fire-fighting

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

equipment/instructions

None established.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize dust generation and accumulation.

Methods and materials for containment and cleaning up

Not available.

**Environmental precautions** 

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

considerations.

## 7. Handling and storage

Precautions for safe 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.

Conditions for safe storage,

including any incompatibilities

7631-86-9)

Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

away from strong oxidizers.

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
<b>US. ACGIH Threshold Limit Va</b>	lues		
Components	Туре	Value	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
<b>US. NIOSH: Pocket Guide to C</b>	hemical Hazards		
Components	Туре	Value	
Amorphous silica (CAS	TWA	6 mg/m3	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Material name: CE322A SDS US **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

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)

**Appropriate engineering** 

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Not available. **Hand protection** Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

# 9. Physical and chemical properties

**Appearance** Fine powder **Physical state** Solid. Color Yellow

Odor Slight plastic odor **Odor threshold** Not available. Not applicable рH Melting point/freezing point Not available. Initial boiling point and Not applicable

boiling range

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not flammable

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

Not available.

**Explosive limit - upper** 

(%)

(%)

Not available.

Vapor pressure Not applicable

Solubility(ies)

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

**Partition coefficient** (n-octanol/water)

Not available.

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

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

Material name: CE322A SDS US

12323 Version #: 04  10. Stability and reactivity

**Reactivity** Not available.

**Chemical 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

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Based on available data, the classification criteria are not met. **Skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

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.

**Reproductive toxicity**Based on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

- single exposure

single exposure

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard**Based on available data, the classification criteria are not met.

**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 aid measures.

Components Species Test Results

Amorphous silica (CAS 7631-86-9)

**Acute** *Oral* 

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

# 12. Ecological information

#### **Ecotoxicity**

Product		Species	Test Results
CE322A			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 Hours

Material name: CE322A SDS US

12323 Version #: 04 Revision date: 12-Oct-2015 Issue date: 16-Apr-2015

Components Species Test Results

Titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours
Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects
Not available.
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.

# 15. Regulatory information

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

under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

# SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

Other federal regulations

Safe Drinking Water Act Not regulated.

(SDWA)

**US state regulations** 

#### **US. Massachusetts RTK - Substance List**

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

**US. New Jersey Worker and Community Right-to-Know Act** 

Titanium dioxide (CAS 13463-67-7)

Material name: CE322A SDS US

## **US. Pennsylvania Worker and Community Right-to-Know Law**

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

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

**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

# 16. Other information, including date of preparation or last revision

Issue date16-Apr-2015Revision date12-Oct-2015

Version # 04

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of HP. Data is the most

current known to HP 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.

Manufacturer information HP

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

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

#### **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 SDS US

# SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CE323A Magenta Print Cartridge

Other means of identification Not available.

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

printers.

Recommended restrictions

Company identification

HP

1501 Page Mill Road Palo Alto, CA 94304-1112

**United States** 

None known.

Telephone 650-857-5020

HP health effects line

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

(Direct) 1-760-710-0048 HP Customer Care Line

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

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	<b>CAS number</b>	%	
Styrene acrylate copolymer		Trade Secret	<85	
Pigment	Pigment	Trade Secret	<10	
Wax	Wax	Trade Secret	<10	
Amorphous silica	Amorphous silica	7631-86-9	<3	
Titanium dioxide		13463-67-7	<1	

# 4. First-aid measures

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

Material name: CE323A SDS US

13334 Version #1 04 Povision date: 13 Oct 3015 Texts date: 16 Apr 3015

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.

Most important

symptoms/effects, acute and

delaved

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards arising from

Not applicable.

Special protective equipment and precautions for

Not available.

the chemical

firefighters

Fire-fighting equipment/instructions If fire occurs in the printer, treat as an electrical fire.

**Specific methods** 

None established.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize dust generation and accumulation.

Methods and materials for containment and cleaning up

Not available.

**Environmental precautions** 

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

considerations.

## 7. Handling and storage

Precautions for safe 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.

Conditions for safe storage,

including any incompatibilities

7631-86-9)

Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
<b>US. ACGIH Threshold Limit Va</b>	lues		
Components	Туре	Value	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to C	hemical Hazards		
Components	Туре	Value	
Amorphous silica (CAS	TWA	6 ma/m3	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Material name: CE323A SDS US **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

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)

**Appropriate engineering** 

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Not available. **Hand protection** Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

# 9. Physical and chemical properties

**Appearance** Fine powder **Physical state** Solid. Color Magenta

Odor Slight plastic odor **Odor threshold** Not available. Not applicable рH Melting point/freezing point Not available. Initial boiling point and Not applicable

boiling range

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not flammable

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

Not available.

**Explosive limit - upper** 

(%)

(%)

Not available.

Vapor pressure Not applicable

Solubility(ies)

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

**Partition coefficient** (n-octanol/water)

Not available.

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

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

Material name: CE323A SDS US 10. Stability and reactivity

Reactivity Not available.

Chemical 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

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Based on available data, the classification criteria are not met. Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. Carcinogenicity

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.

Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Specific target organ toxicity

- single exposure

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**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 aid measures.

**Test Results** Components **Species** 

Amorphous silica (CAS 7631-86-9)

**Acute** Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

# 12. Ecological information

#### **Ecotoxicity**

Product		Species Test Results	
CE323A			
Aquatic			
Fish	LL50	Fish	> 1000 mg/l, 96 Hours

Material name: CE323A SDS US

12324 Version #: 04  Components Species Test Results

Titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours
Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects
Not available.
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.

# 15. Regulatory information

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

under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

## SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

Other federal regulations

**Safe Drinking Water Act** Not regulated.

(SDWA)

**US state regulations** 

#### **US. Massachusetts RTK - Substance List**

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

## **US. New Jersey Worker and Community Right-to-Know Act**

Titanium dioxide (CAS 13463-67-7)

Material name: CE323A sps us

## **US. Pennsylvania Worker and Community Right-to-Know Law**

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

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

**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, including date of preparation or last revision

Issue date16-Apr-2015Revision date12-Oct-2015

Version # 04

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current known to HP 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.

**Manufacturer information** HP

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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: CE323A SDS US