

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** HP Color LaserJet CB382A-AC-YC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CP6015, CP6030 MFP,

and CM6040 MFP series printers.

**Recommended restrictions Company identification** 

**Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CB382A-AC-YC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

CO2, water, or dry chemical

Special protective equipment

and precautions for

firefighters

Not available.

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

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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Type** Yellow Toner (CAS **TWA** 6 ma/m3

7631-86-9)

Components

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

ACGIH (TWA/TLV): 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

**Value** 

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.

Material name: CB382A-AC-YC SDS US 2/6

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#### Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** 0 % estimated

Softening point 212 - 302 °F (100 - 150 °C)

212 - 302 °F (100 - 150 °C)

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CB382A-AC-YC 3/6

10616 Version #: 01 Issue date: 16-Apr-2015

# 11. Toxicological information

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

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

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.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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
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Yellow Toner

Aquatic

Fish LL50 Rainbow Trout > 100 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CB382A-AC-YC

# 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

**Ecological Information: Ecotoxicity** 

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Material name: CB382A-AC-YC SDS US

Manufacturer information Hewlett-Packard Company

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: CB382A-AC-YC SDS US



# SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CB403A Magenta Print Cartridge

Other means of identification Not available.

**Recommended use**This product is a magenta toner preparation that is used in HP Color LaserJet CP4005 series

printers.

**Recommended restrictions** None known.

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<6
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CB403A SDS US

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

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

None known.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Not applicable.

CO2, water, or dry chemical

Special protective equipment

and precautions for

Not available.

firefighters

Fire-fighting

equipment/instructions

Specific methods None established.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize dust generation and accumulation.

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

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

Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers.

Keep tightly closed and dry.

#### 8. Exposure controls/personal protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Amorphous silica (CAS **TWA** 6 ma/m3

**Type** 

7631-86-9)

Components

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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

**Value** 

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.

SDS US 2/6 10357 Version #: 01 Issue date: 16-Apr-2015

#### Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

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

Other information

Softening point 212 - 302 °F (100 - 150 °C)

212 - 302 °F (100 - 150 °C)

# 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.

Material name: CB403A 3/6

10357 Version #: 01 Issue date: 16-Apr-2015

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

CB403A

Aquatic

Fish LL50 Rainbow Trout > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CB403A SDS US

# 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**

Not regulated.

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

Not listed.

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

Not listed.

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

Not regulated.

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

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients

Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

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Manufacturer information Hewlett-Packard Company

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: CB403A SDS US

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** HP Color LaserJet CC532A-AC-L Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CP2025 and CM2320

series printers.

**Recommended restrictions Company identification** 

None known. **Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CC532A-AC-L 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.

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

delayed

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

Not available.

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: CC532A-AC-L

10805 Version #: 02 Revision date: 16-Apr-2015 Issue date: 13-Mar-2015

#### Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable 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 -

Not available.

upper (%)

**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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C) **Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CC532A-AC-L 3/6

10805 Version #: 02 Revision date: 16-Apr-2015 Issue date: 13-Mar-2015

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

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.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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	
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CC532A-AC-L Aquatic

Fish LL50 Fish > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CC532A-AC-L SDS US

# 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

Issue date13-Mar-2015Revision date16-Apr-2015

Version # 02

**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.

Material name: CC532A-AC-L SDS US

10805 Version #: 02 Revision date: 16-Apr-2015 Issue date: 13-Mar-2015

Manufacturer information Hewlett-Packard Company

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: CC532A-AC-L SDS US

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** HP Color LaserJet CE252A-AC-YC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CP3525 and CM3530

series printers.

**Recommended restrictions Company identification** 

None known.

**Hewlett-Packard Company** 3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CE252A-AC-YC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

CO2, water, or dry chemical

Special protective equipment

and precautions for firefighters

Not available.

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: CE252A-AC-YC SDS US

10845 Version #: 02 Revision date: 16-Apr-2015 Issue date: 11-Mar-2015

#### Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C) **Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CE252A-AC-YC SDS US

# 11. Toxicological information

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

#### Information on toxicological effects

**Acute toxicity** LD50/oral/rat >2000 mg/kg; (OECD 401); Not harmful.

Not classified for acute toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Bridging 07/5 10/220 dis

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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**

esults

CE252A-AC-YC (CAS Mixture)

**Aquatic** 

Fish LL50 Fish > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CE252A-AC-YC SDS US

10845 Version #: 02 Revision date: 16-Apr-2015 Issue date: 11-Mar-2015

# 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

Issue date11-Mar-2015Revision date16-Apr-2015

Version # 02

**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.

Material name: CE252A-AC-YC SDS US

10845 Version #: 02 Revision date: 16-Apr-2015 Issue date: 11-Mar-2015

Manufacturer information Hewlett-Packard Company

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: CE252A-AC-YC SDS US

# SAFETY DATA SHEET

1. Identification

**Product identifier** HP Color LaserJet CE262A-AC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CP4525, CP4025 series

printers.

**Recommended restrictions** None known.

**Company identification Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CE262A-AC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

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 firefighters

Not available.

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: CE262A-AC SDS US

11959 Version #: 01 Issue date: 16-Apr-2015

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Not available.

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** 0 % estimated

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

176 - 266 °F (80 - 130 °C)

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CE262A-AC SDS US

11959 Version #: 01 Issue date: 16-Apr-2015

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

CE262A-AC

Aquatic

Fish LL50 Rainbow Trout > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CE262A-AC SDS US

# 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Material name: CE262A-AC SDS US

Manufacturer information Hewlett-Packard Company

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: CE262A-AC SDS US



# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** HP Color LaserJet CE272A-AC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CLJ CP5525/ HP Color

LaserJet Enterprise M750 series printers.

**Recommended restrictions Company identification** 

**Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CE272A-AC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

CO2, water, or dry chemical

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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.

Not available.

None known.

Not applicable.

Most important

symptoms/effects, acute and

delayed

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting

equipment/instructions

Not available.

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

Minimize dust generation and accumulation.

Specific methods None established.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

Components

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

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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

**Value** 

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.

Material name: CE272A-AC SDS US

12386 Version #: 01 Issue date: 16-Apr-2015

#### Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C) **Viscosity** Not applicable

Other information

**Percent volatile** Negligible

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

VOC (Weight %) Not applicable

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CE272A-AC SDS US 3/6

# 11. Toxicological information

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

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Serious eye damage/eye

irritation

Not available.

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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
CE272A-AC			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 Hours

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

Material name: CE272A-AC SDS US

# 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

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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.

**Revision Information** 1. Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Material name: CE272A-AC SDS US

12386 Version #: 01 Issue date: 16-Apr-2015

Manufacturer information Hewlett-Packard Company

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: CE272A-AC SDS US



# SAFETY DATA SHEET

1. Identification

**Product identifier** HP Color LaserJet CE342A-AC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP LJ Enterprise 700 Color MFP M775

series printers. None known.

Recommended restrictions
Company identification

Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<90
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<3

#### 4. First-aid measures

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

Material name: CE342A-AC SDS US

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

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

Not available.

firefighters

Fire-fighting

Specific methods

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: CE342A-AC SDS US

12882 Version #: 01 Issue date: 16-Apr-2015

#### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable

**Decomposition temperature** >= 392 °F (>= 200 °C)

**Viscosity** Not applicable

Other information

**Percent volatile** Negligible

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

Specific gravity 1 - 1.2 (H2O = 1)VOC (Weight %) Not applicable

## 10. Stability and reactivity

Reactivity Not available.

Stable under normal storage conditions. **Chemical stability** 

**Possibility of hazardous** 

reactions

Will not occur.

**Conditions to avoid** Imaging Drum: Exposure to light

**Incompatible materials** Strong oxidizers

Material name: CE342A-AC SDS US 3/6 **Hazardous decomposition** products

Carbon monoxide and carbon dioxide.

## 11. Toxicological information

Symptoms related to the

Not available.

physical, chemical and toxicological characteristics

Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation Not available.

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.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

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

Carcinogenicity Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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
-----------------	--------------

CE342A-AC

**Aquatic** 

LC50 Fish Fish > 100 mg/l, 96 Hours

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

Material name: CE342A-AC SDS US

12882 Version #: 01 Issue date: 16-Apr-2015

## 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

Material name: CE342A-AC SDS US

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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.

**Revision Information** 1. Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

**Manufacturer information** Hewlett-Packard Company

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: CE342A-AC SDS US



# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** HP Color LaserJet CE402A-AC-YC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP LaserJet Enterprise 500 Color M551,

HP LaserJet Enterprise 500 color MFP M575 / HP LaserJet Pro 500 color MFP M570 series printers.

**Recommended restrictions Company identification** 

**Hewlett-Packard Company** 3000 Hanover Street

Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<90
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<3

#### 4. First-aid measures

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

Material name: CE402A-AC-YC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

CO2, water, or dry chemical

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

firefighters

Fire-fighting equipment/instructions Not available.

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: CE402A-AC-YC SDS US

12642 Version #: 02 Revision date: 16-Apr-2015 Issue date: 18-Sep-2014

#### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C) **Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CE402A-AC-YC

12642 Version #: 02 Revision date: 16-Apr-2015 Issue date: 18-Sep-2014

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Serious eye damage/eye

Not available.

irritation

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

Reproductive toxicity

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

Rat

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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 > 22500 mg/kg

## 12. Ecological information

## **Ecotoxicity**

Product	Species	Test Results
CE403A AC VC		

CE402A-AC-YC

Aquatic

Fish LC50 Fish > 100 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: CE402A-AC-YC SDS US

# 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

Issue date18-Sep-2014Revision date16-Apr-2015

Version # 02

**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.

Material name: CE402A-AC-YC SDS US

Manufacturer information Hewlett-Packard Company

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: CE402A-AC-YC SDS US



# SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CE412A-AC-L 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 300 Color M351/HF

LaserJet Pro 400 Color M451/HP LaserJet Pro 300 Color MFP M375/HP LaserJet Pro 400 Color MFP

M475 series printers.

Recommended restrictions

None known.

**Company identification**Hewlett-Packard Company 3000 Hanover Street

Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<3

Material name: CE412A-AC-L SDS US

12719 Version #: 02 Revision date: 16-Apr-2015 Issue date: 02-Dec-2014

4. First-aid measures

**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.

Most important

symptoms/effects, acute and

delayed

Not available.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

CO2, water, or dry chemical

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

firefighters

Not available.

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

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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** Components **Type** 

Amorphous silica (CAS 7631-86-9)

**TWA** 

6 mg/m3

Value

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**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)

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Material name: CE412A-AC-L

**Appropriate engineering** 

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection

Not available.

Skin protection

Hand protection Not available.
Other Not available.
Respiratory protection Not available.
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.

PH Not applicable

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 Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable

Decomposition temperature > 392 °F (> 200 °C)

Viscosity Not applicable

Other information

Percent volatile 0 % estimated

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

**Specific gravity** 1 - 1.2

# 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

Material name: CE412A-AC-L SDS US

**Hazardous decomposition** products

Carbon monoxide and carbon dioxide.

# 11. Toxicological information

Symptoms related to the

Not available.

physical, chemical and toxicological characteristics

Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation Not available.

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.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

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

Carcinogenicity Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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
CE412A-AC-L		

**Aquatic** 

LC50 Fish

Fish > 100 mg/l, 96 Hours

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

Material name: CE412A-AC-L SDS US

## 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.

Ta Tocal Togalacionol

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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

Issue date02-Dec-2014Revision date16-Apr-2015

Version # 02

Material name: CE412A-AC-L SDS US

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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.

Manufacturer information Hewlett-Packard Company

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: CE412A-AC-L SDS US

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** HP Color LaserJet CE742A Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CLJ CP 5225 series

printers.

**Recommended restrictions** 

**Company identification Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

None known.

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CE742A SDS US 1/6 Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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.

Not available.

Most important

symptoms/effects, acute and

delayed

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

CO2, water, or dry chemical

Specific hazards arising from

the chemical

Special protective equipment and precautions for

firefighters

Fire-fighting

equipment/instructions

Not available.

Not applicable.

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

Methods and materials for containment and cleaning up Minimize dust generation and accumulation.

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

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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** Components **Type** 

Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

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

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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

**Value** 

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.

Material name: CE742A SDS US 2/6 11997 Version #: 01 Issue date: 16-Apr-2015

#### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** Negligible

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

176 - 266 °F (80 - 130 °C)

VOC (Weight %) Not applicable

## 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.

Material name: CE742A SDS US 11997 Version #: 01 Issue date: 16-Apr-2015

3/6

# 11. Toxicological information

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

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Serious eye damage/eye

irritation

Not available.

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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.

**Species Test Results** Components

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
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CE742A (CAS Mixture)

**Aquatic** 

LL50 Fish Fish > 1000 mg/l, 96 Hours

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

Material name: CE742A SDS US

## 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Material name: CE742A SDS US

11997 Version #: 01 Issue date: 16-Apr-2015

Manufacturer information Hewlett-Packard Company

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: CE742A SDS US

# SAFETY DATA SHEET

1. Identification

**Product identifier** HP Color LaserJet CF032A-AC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet CM4540 MFP series

printers.

**Recommended restrictions** None known.

**Company identification Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

Not available. **Prevention** Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

#### 4. First-aid measures

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

Material name: CF032A-AC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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.

Not available.

Most important

symptoms/effects, acute and

delayed

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

CO2, water, or dry chemical

Specific hazards arising from

the chemical

Not applicable. Not available.

Special protective equipment

firefighters

and precautions for

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 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

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

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

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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

**Value** 

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.

Material name: CF032A-AC SDS US

12390 Version #: 01 Issue date: 22-Apr-2015

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** 

Not available.

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** 0 % estimated

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

176 - 266 °F (80 - 130 °C)

## 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CF032A-AC 3/6

12390 Version #: 01 Issue date: 22-Apr-2015

# 11. Toxicological information

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

#### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

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.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

Skin sensitization

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

Reproductive toxicity

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

Rat

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

> 22500 mg/kg

## 12. Ecological information

## **Ecotoxicity**

**Test Results Product Species** 

CF032A-AC **Aquatic** 

> LC50 Fish Fish

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

> 100 mg/l, 96 Hours

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.

Material name: CF032A-AC SDS US

## 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 22-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Material name: CF032A-AC SDS US

12390 Version #: 01 Issue date: 22-Apr-2015

Manufacturer information Hewlett-Packard Company

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: CF032A-AC SDS US

# SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet CF312A-AC Yellow Print Cartridge

Other means of identification Not available.

**Recommended use**This product is a yellow toner preparation that is used in HP Color LaserJet Enterprise M855 series

printers.

**Recommended restrictions** None known.

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<90
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<3

#### 4. First-aid measures

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

Material name: CF312A-AC 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.

**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

delayed

Not available. and

# 5. Fire-fighting measures

Suitable extinguishing media

**Unsuitable extinguishing** 

media

CO2, water, or dry chemical None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for firefighters

Not available.

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

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

**Occupational exposure limits** 

**US. NIOSH: Pocket Guide to Chemical Hazards** 

 Components
 Type
 Value

 Amorphous silica (CAS
 TWA
 6 mg/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**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.

Material name: CF312A-AC sps us

#### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C) **Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

# 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** 

Carbon monoxide and carbon dioxide.

products

Material name: CF312A-AC SDS US

13200 Version #: 01 Issue date: 16-Apr-2015

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

Skin sensitization Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

Rat

Specific target organ toxicity

tv Not available.

- repeated exposure

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

> 22500 mg/kg

12. Ecological information

**Ecotoxicity** 

Product Species Test Results

CF312A-AC

Aquatic

Fish LC50 Fish > 100 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

Material name: CF312A-AC SDS US

13200 Version #: 01 Issue date: 16-Apr-2015

## 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)

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

Not listed

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

Amorphous silica (CAS 7631-86-9)

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

Material name: CF312A-AC SDS US

**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.

**Revision Information** 1. Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Manufacturer information Hewlett-Packard Company

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: CF312A-AC SDS US

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** HP Color LaserJet Q5952A-AC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet 4700 series printers

**Recommended restrictions** None known.

**Company identification Hewlett-Packard Company** 

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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** 

None. **Hazard symbol** Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

**Prevention** Not available. Response Not available. **Storage** Not available. **Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	<u> </u>
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

## 4. First-aid measures

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

Material name: Q5952A-AC SDS US Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

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 firefighters

Not available.

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 Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers.

Keep tightly closed and dry.

### 8. Exposure controls/personal protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** Components **Type** 

Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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

**Value** 

mg/m3

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

2/6

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

Appropriate engineering

controls

Use in a well ventilated area.

Material name: Q5952A-AC SDS US

9853 Version #: 01 Issue date: 16-Apr-2015

### Individual protection measures, such as personal protective equipment

**Eye/face protection** 

Not available.

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** 0 % estimated

Softening point 212 - 302 °F (100 - 150 °C)

212 - 302 °F (100 - 150 °C)

## 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** 

Carbon monoxide and carbon dioxide.

products

Material name: Q5952A-AC SDS US

## 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

Q5952A-AC **Aquatic** 

Fish LL50 Rainbow Trout > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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**

Not regulated.

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

Not listed.

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

Not listed.

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

Not regulated.

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

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Material name: Q5952A-AC 9853 Version #: 01 Issue date: 16-Apr-2015

SDS US

Manufacturer information Hewlett-Packard Company

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

# SAFETY DATA SHEET

1. Identification

**Product identifier** HP Color LaserJet Q6462A-AC Yellow Print Cartridge

Other means of identification Not available.

**Recommended use**This product is a yellow toner preparation that is used in HP Color LaserJet 4730mfp/CM4730mfp.

series printers.

Recommended restrictions
Company identification

None known.

Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

### 4. First-aid measures

**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.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

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 firefighters

Not available.

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 Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers.

Keep tightly closed and dry.

### 8. Exposure controls/personal protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Value** Components **Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: Q6462A-AC SDS US

9830 Version #: 02 Revision date: 16-Apr-2015 Issue date: 15-Apr-2015

### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

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

Other information

**Percent volatile** 0 % estimated

Softening point 212 - 302 °F (100 - 150 °C) 212 - 302 °F (100 - 150 °C)

## 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** 

Carbon monoxide and carbon dioxide.

products

Material name: Q6462A-AC SDS US

9830 Version #: 02 Revision date: 16-Apr-2015 Issue date: 15-Apr-2015

## 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

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.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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

Q6462A-AC **Aquatic** 

Fish LL50 Rainbow Trout > 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

Issue date15-Apr-2015Revision date16-Apr-2015

Version # 02

**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.

Manufacturer information Hewlett-Packard Company

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

# SAFETY DATA SHEET

## 1. Identification

Product identifier HP Color LaserJet Q6472A-AC Yellow Print Cartridge

Other means of identification Not available.

**Recommended use**This product is a yellow toner preparation that is used in HP Color LaserJet 3600 series printers

**Recommended restrictions** None known.

**Company identification**Hewlett-Packard Company 3000 Hanover Street

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	<u> </u>
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

## 4. First-aid measures

**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.

**Most important** 

symptoms/effects, acute and

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

None

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

CO2, water, or dry chemical

Special protective equipment

and precautions for

Not available.

firefighters

Fire-fighting

equipment/instructions

**Specific methods** None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize dust generation and accumulation.

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

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 Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers.

Keep tightly closed and dry.

### 8. Exposure controls/personal protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

 Components
 Type
 Value

 Amorphous silica (CAS
 TWA
 6 mg/m3

7631-86-9) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**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.

Material name: Q6472A-AC SDS US

9884 Version #: 01 Issue date: 22-Apr-2015

### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable **Decomposition temperature** > 392 °F (> 200 °C)

**Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

Softening point 212 - 302 °F (100 - 150 °C)

Specific gravity 1 - 1.2

# 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** 

Carbon monoxide and carbon dioxide.

products

## 11. Toxicological information

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

### Information on toxicological effects

**Acute toxicity** LD50/oral/rat >2000 mg/kg; (OECD 401); Not harmful.

Not classified for acute toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Skin corrosion/irritation

Not available.

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.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

ar

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

and DFG (Germany).

Specific target organ toxicity

single exposure

Reproductive toxicity

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard

Not available.

Mouse

Rat

Chronic effects

Components

No information available.

**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.

Species Test Results

Amorphous silica (CAS 7631-86-9)

Acute

Oral

LD50

> 15000 mg/kg

> 22500 mg/kg

### 12. Ecological information

### **Ecotoxicity**

Product	Species	Test Results
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Q6472A-AC

Aquatic

Fish LL50 Rainbow Trout > 1000 mg/l, 96 Hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects 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.

Material name: Q6472A-AC SDS US

9884 Version #: 01 Issue date: 22-Apr-2015

## 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** 

Not regulated.

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

Not listed

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 22-Apr-2015

Version # 01

**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.

**Revision Information** 1. Product and Company Identification: Alternate Trade Names

**Manufacturer information** Hewlett-F

Hewlett-Packard Company 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

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** HP Color LaserJet Q7582A-AC Yellow Print Cartridge

Other means of identification Not available.

**Recommended use**This product is a yellow toner preparation that is used in HP Color LaserJet CP3505/3800 series

printers.

Recommended restrictions

**Company identification** 

None known.

Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard 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)

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. None of the ingredients have been classified as carcinogens according

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

**Supplemental information** None.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Wax	Wax	Trade Secret	<15
Pigment	Pigment	Trade Secret	<5
Amorphous silica	Amorphous silica	7631-86-9	<2

### 4. First-aid measures

**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.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

delayed

Not available.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

CO2, water, or dry chemical

Special protective equipment

and precautions for firefighters

Not available.

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

**Value** 

adequate ventilation. Keep away from excessive heat, sparks, and open flames.

Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store at room temperature. Store away from strong oxidizers.

Keep tightly closed and dry.

### 8. Exposure controls/personal protection

Occupational exposure limits

**US. NIOSH: Pocket Guide to Chemical Hazards** 

**Type** Amorphous silica (CAS **TWA** 6 ma/m3

7631-86-9)

Components

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction) **Exposure guidelines** 

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.

Material name: Q7582A-AC SDS US

### Individual protection measures, such as personal protective equipment

Not available. **Eye/face protection** 

Skin protection

Hand protection Not available. **Other** Not available. **Respiratory protection** Not available. 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. рH Not applicable Not available. Melting point/freezing point 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** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable

**Decomposition temperature** >= 392 °F (>= 200 °C)

**Viscosity** Not applicable

Other information

**Percent volatile** 0 % estimated

Softening point 212 - 302 °F (100 - 150 °C)

212 - 302 °F (100 - 150 °C)

## 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** 

Carbon monoxide and carbon dioxide.

products

Material name: Q7582A-AC SDS US

## 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

### Information on toxicological effects

**Acute toxicity** 

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

irritation

Directive 67/548/EEC and as amended.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

Germ cell mutagenicity

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

Carcinogenicity

Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations

(USA), EU Directive, or Proposition 65 (California).

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

and DFG (Germany).

Specific target organ toxicity

- single exposure

Not available.

**Specific target organ toxicity** 

- repeated exposure

Not available.

**Aspiration hazard** Not available.

**Chronic effects** No information available.

**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	
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Q7582A-AC

Aquatic

Fish LL50 Rainbow Trout > 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** 

Not regulated.

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

Not listed.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not 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, including date of preparation or last revision

**Issue date** 16-Apr-2015

Version # 01

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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.

**Revision Information** 1. Product and Company Identification: Physical States

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Material name: Q7582A-AC

Manufacturer information Hewlett-Packard Company

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

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**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

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STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds