

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

HP Color LaserJet CF321A-AC Cyan Print Cartridge

designation of the mixture

Registration number -

**Synonyms** None.

**Issue date** 20-Sep-2014

Version number 01

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses**This product is a cyan toner preparation that is used in HP Color LaserJet Enterprise Flow MFF

M680 series printers.

**Uses advised against** None known.

Company identification Hewlett-Packard, Ltd.

Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790

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 Poison Information Center 0207771 5307

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Hazard summary** 

**Physical hazards**Not classified for physical hazards. **Health hazards**Not classified as a health hazard.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

None

**Contains:** Amorphous silica, Pigment, Styrene acrylate copolymer, Wax

Hazard pictograms None.

Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

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

Supplemental label

information

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#### 2.3. Other hazards

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended. This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006. None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

**General information** 

**Chemical name** CAS-No. / EC No. REACH Registration No. Index No.

Styrene acrylate copolymer - < 90 Trade Secret

%

**Classification:** DSD: -

CLP:

**Pigment** - < 10Trade Secret

Classification: DSD: -

CLP:

Wax - < 10Trade Secret

DSD: -

CLP: -

Classification:

Amorphous silica < 3 7631-86-9

231-545-4

Classification: DSD: -

CLP:

### **SECTION 4: First aid measures**

**General information** Not available.

4.1. Description of 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.

4.2. Most important symptoms and effects, both

acute and delayed

4.3. Indication of any

immediate medical attention and special treatment

needed

Not available.

Not available.

# **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising

from the substance or mixture

Not available.

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Notes

5.3. Advice for firefighters

**Special protective** equipment for firefighters

Not available.

Special fire fighting

procedures

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

Specific methods None established.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Minimize dust generation and accumulation.

For emergency responders

Not available.

6.2. Environmental precautions

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

6.3. Methods and material for

containment and cleaning up

Not available.

6.4. Reference to other

sections

Not available.

# **SECTION 7: Handling and storage**

7.1. 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.

7.2. 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.

7.3. Specific end use(s) Not available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

**Occupational exposure limits** 

No exposure limits noted for ingredient(s).

**Biological limit values** 

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

**Recommended monitoring** 

procedures

Not available.

**Derived no-effect level** 

(DNEL)

Not available.

Predicted no effect concentrations (PNECs) Not available.

**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)

8.2. Exposure controls

Appropriate engineering

Use in a well ventilated area.

controls

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

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

Not available. Eye/face protection

Skin protection

Not available. - Hand protection Not available. - Other **Respiratory protection** Not available. Thermal hazards Not available. **Hygiene measures** Not available.

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**Environmental exposure** 

controls

Not available.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

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

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

boiling range

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

Flammability limit - lower

Not flammable

Flammability limit -

upper (%)

Not available.

Not applicable Vapor pressure Not applicable Vapor density **Relative density** Not available.

Solubility(ies)

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

Solubility (other) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not applicable

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

**Viscosity** Not applicable **Explosive properties** Not available.

Oxidizing properties No information available.

9.2. Other information

**Percent volatile** 0 % estimated

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

Specific gravity 1 - 1.2

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

10.2. Chemical stability Stable under normal storage conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Imaging Drum: Exposure to light

10.5. Incompatible materials Strong oxidizers

10.6. Hazardous Carbon monoxide and carbon dioxide.

decomposition products

# **SECTION 11: Toxicological information**

**General information** Not available. 11.1. Information on toxicological effects

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 sensitization Not available.

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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.

Not available. **Aspiration hazard** 

**Components Species Test Results** 

Amorphous silica (CAS 7631-86-9)

**Acute** 

Oral

LD50 Mouse

> 15000 mg/kg Rat > 22500 mg/kg

Mixture versus substance

information

Not available.

Other 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.

## **SECTION 12: Ecological information**

**Aquatic toxicity** Not available

12.1. Toxicity LC50: > 100 mg/l, Fish, 96.00 Hours

**Product Species Test Results** 

CF321A-AC

**Aquatic** 

Fish LC50 Fish > 100 mg/l, 96 Hours

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

**Partition coefficient** 

n-octanol/water (log Kow)

Not available.

**Bioconcentration factor (BCF)** 

Not available. Not available.

12.4. Mobility in soil 12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

This product has not been tested for ecological effects. 12.6. Other adverse effects

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Residual waste Not available. Contaminated packaging Not available. **EU** waste code Not available.

Disposal methods/information 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.

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### **SECTION 14: Transport information**

Transport in bulk according to Annex II of MARPOL 73/78

Transport in bulk according to This substance/mixture is not intended to be transported in bulk.

and the IBC Code

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

# **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

#### **Authorizations**

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

# Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

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.

National regulations Not available.

15.2. Chemical safety Not available.

assessment

Other regulations

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### **SECTION 16: Other information**

Not available. References

Information on evaluation method leading to the classification of mixture

Not available.

None.

Full text of any statements or **R-phrases and H-statements** 

under Sections 2 to 15

**Revision information** 

1. Product and Company Identification: Alternate Trade Names

9. Physical & Chemical Properties: Multiple Properties

**Training information** Not available.

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may not meet regulatory requirements in other countries.

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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

Superfund Amendments and Reauthorization Act of 1986 **SARA** 

**STEL** Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act VOC Volatile Organic Compounds

List of abbreviations Not available.

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