# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

**Material name** HP Color LaserJet CF321A Cyan Print Cartridge

Version # 01

**Issue date** 08-Apr-2014

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

M680 series printers.

**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. Hazards Identification

#### **Potential health effects**

**Eyes** May cause transient slight irritation Skin Unlikely to cause skin irritation.

**Inhalation** Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust. Use of

this product as intended does not result in inhalation of excessive amounts of dust.

**Ingestion** Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Other hazards 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.

# 3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	<90
Pigment	Trade Secret	<10
Wax	Trade Secret	<10
Amorphous silica	7631-86-9	<3

#### 4. First Aid Measures

**General advice** No information

First aid procedures

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

least 15 minutes or until particles are removed. If irritation persists, consult a physician.

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

develops or persists.

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

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

physician.

Material name: CF321A MSDS US 1/5 5. Fire Fighting Measures

Flammable properties Like most organic material in powder form, toner can form explosive dust-air mixtures when finely

dispersed in air.

**Extinguishing media** 

Suitable extinguishing

media

CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

None established.

Specific methods

Hazardous combustion

Carban

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

**Personal precautions** Minimize dust generation and accumulation.

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

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

considerations.

**Other information** Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a

damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust

explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with

federal, state, and local regulations.

7. Handling and Storage

**Handling** Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use

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

**Storage** 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** 

ComponentsTypeValueAmorphous silica (CASTWA6 mg/m37631-86-9)

**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

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

Personal protective equipment

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

9. Physical & Chemical Properties

**Appearance** Fine powder

Form solid Color Cyan

Odor

pH

Not applicable

Vapor pressure

Boiling point

Melting point/Freezing point

Slight plastic odor

Not applicable

Not applicable

Not available.

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

Material name: CF321A MSDS US

Specific gravity 1 - 1.2

Flash point Not applicable **Viscosity** Not applicable **Percent volatile** 0 % estimated

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

VOC Not available

Other information No information available

Other data

Decomposition > 392 °F (> 200 °C)

temperature

10. Chemical Stability & Reactivity Information

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

**Incompatible materials** Strong oxidizers

Hazardous decomposition

products

Carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

Will not occur.

# 11. Toxicological Information

# **Toxicological data**

**Components Test Results Species** 

Amorphous silica (CAS 7631-86-9)

**Acute** Oral

LD50 Mouse > 15000 mg/kg

> Rat > 22500 mg/kg

Sensitization Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA

HCS (US).

**Chronic effects** No information available.

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

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

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.

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

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

and DFG (Germany).

**Further information** Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

# 12. Ecological Information

**Ecotoxicological data** 

**Product Test Results Species** 

CF321A

Fish LC50 Fish > 100 mg/l, 96 Hours

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

Persistence and degradability Not available.

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# 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.

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

# **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

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

Not regulated.

# **CERCLA (Superfund) reportable quantity**

None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

**SARA 311/312** No

**Hazardous chemical** 

#### State regulations

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

Not regulated.

# **US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

# **US. Rhode Island RTK**

Not regulated.

# 16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

**NFPA ratings** Health: 1

Flammability: 1 Instability: 0

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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.

Material name: CF321A MSDS US

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

**Issue date** 08-Apr-2014

**Manufacturer information** Hewlett-Packard Company

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# **Explanation of abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

**CERCLA** Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

COC Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

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

**STEL** Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Material name: CF321A MSDS US