

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HP Color LaserJet CF311A-AC Cyan Print Cartridge

Version # 01

**Issue date** 16-Jan-2014

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

printers.

**Company identification Hewlett-Packard Company** 

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**United States** 

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# 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: CF311A-AC 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

Specific methods

None established.

**Hazardous combustion** 

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

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

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

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** 

Value
6 mg/m3

**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

AppearanceFine powderPhysical stateSolid.FormsolidColorCyan

Odor Slight plastic odor
pH Not applicable
Vapor pressure Not applicable
Boiling point Not applicable
Melting point/Freezing point Not available.

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

Specific gravity 1 - 1.2

Flash pointNot applicableViscosityNot applicablePercent volatile0 % estimated

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

**VOC** Not available

**Other information** No information available

Other data

**Decomposition** > 392 °F (> 200 °C)

temperature

# 10. Chemical Stability & Reactivity Information

Chemical stabilityStable under normal storage conditions.Conditions to avoidImaging 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 Species Test Results

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).

## IARC Monographs. Overall Evaluation of Carcinogenicity

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

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	Species	Test Results
CE311A_AC		

CF311A-AC

Fish LC50 Fish > 100 mg/l, 96 Hours

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

Persistence and degradability Not available.

Material name: CF311A-AC MSDS 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.

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**

Amorphous silica (CAS 7631-86-9)

## **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

**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: CF311A-AC MSDs us

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

CFR 1910.1200).

**Issue date** 16-Jan-2014

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Physical & Chemical Properties: Multiple Properties

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: CF311A-AC MSDs us