



## SAFETY DATA SHEET

### Section 1 - Identification

**Important information** \*\*\* This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. \*\*\*

**Product identifier** HP Color LaserJet CF451A Cyan Print Cartridge

**Other means of identification** None.

#### Recommended use of the chemical and restrictions on use

**Recommended use** This product is a cyan toner preparation that is used in HP Color LaserJet M652 / HP Color LaserJet M681 / HP Color LaserJet M653 / HP Color LaserJet M682 series printers.

**Restrictions on use** Not available.

#### Details of manufacturer or importer

HP PPS Australia Pty Ltd  
Rhodes Corporate Park Building F  
Level 5, 1 Homebush Bay Drive  
Rhodes  
NSW 2138  
Australia  
+61 2 8278 4492

#### HP Inc. health effects line

**Australia Local Telephone Number** +61 1 800 686 951

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

**(Direct)** 1-760-710-0048

#### HP Inc. Customer Care Line

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

**(Direct)** 1-208-323-2551

**Email:** sustainability@hp.com

### Section 2 - Hazard(s) identification

#### Classification of the hazardous chemical

**Physical hazards** Not classified.

**Health hazards** Not classified.

#### Label elements, including precautionary statements

**Hazard symbol(s)** None.

**Signal word** None.

**Hazard statement(s)** Not available.

#### Precautionary statement(s)

**Prevention** Not available.

**Response** Not available.

**Storage** Not available.

**Disposal** Not available.

**Supplemental information** None.

**Other hazards which do not result in classification** None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

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## Section 3 - Composition and information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Styrene acrylate copolymer	Trade Secret	<85
Wax Wax	Trade Secret	<10
Pigment Pigment	Trade Secret	<5
Amorphous silica Amorphous silica	7631-86-9	<3

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## Section 4 - First aid measures

### Description of necessary first aid measures

<b>Inhalation</b>	Move person to fresh air immediately. If irritation persists, consult a physician.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

**Personal protection for first-aid responders** Not available.

**Symptoms caused by exposure** Not available.

**Medical attention and special treatment** Not available.

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## Section 5 - Firefighting measures

### Extinguishing media

**Suitable extinguishing equipment** CO<sub>2</sub>, water, or dry chemical

**Unsuitable extinguishing equipment** None known.

**Specific hazards arising from the chemical** Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

**Special protective equipment and precautions for firefighters** Not available.

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

**Hazchem code** None.

**Specific methods** None established.

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## Section 6 - Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Minimize dust generation and accumulation.

**For emergency responders** Not available.

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

**Methods and materials for containment and cleaning up** 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.

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## Section 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 at room temperature. Store away from strong oxidizers.

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## Section 8 - Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

##### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	Respirable dust.

##### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.

##### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.

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

**Exposure guidelines** „

**Control banding** Not available.

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

#### Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection** Not available.

#### Skin protection

**Hand protection** Not available.

**Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

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## Section 9 - Physical and chemical properties

**Physical state** Liquid.

**Form** solid

**Color** Cyan

**Odor** Slight plastic odor

**Odor threshold** Not available.

**pH** Not applicable

**Melting point/freezing point** Not available.

**Boiling point and boiling range** Not applicable

**Flash point** Not applicable

**Evaporation rate** Not applicable

**Flammability (solid, gas)** Not available.

#### Upper/lower explosive limits

**Explosion limit - lower (%)** Not flammable

**Explosion limit - upper (%)** Not available.

**Vapor pressure** Not applicable

**Relative vapor density** Not available.

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## Solubility

<b>Solubility (water)</b>	Negligible in water. Partially soluble in toluene and xylene.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	>392 °F (>200 °C)
<b>Viscosity</b>	Not applicable
<b>Particle characteristics</b>	Not available.
<b>Data relevant with regard to physical hazard classes</b>	No relevant additional information available.

## Other physical and chemical parameters

<b>Oxidizing properties</b>	No information available.
<b>Percent volatile</b>	0 % estimated
<b>Softening point</b>	176 - 266 °F (80 - 130 °C)
<b>Specific gravity</b>	1 - 1.2

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## Section 10 - Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Conditions to avoid</b>	Imaging Drum: Exposure to light
<b>Incompatible materials</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.

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## Section 11 - Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Contact with skin may result in mild irritation.
<b>Eye contact</b>	Contact with eyes may result in mild irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.

**Early onset symptoms related to exposure** Not available.

**Delayed health effects from exposure** Not available.

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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

### Respiratory or skin sensitization

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

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

**Germ cell mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)  
Based on available data, the classification criteria are not met.

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

### IARC Monographs. Overall Evaluation of Carcinogenicity

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

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

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

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

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

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## Section 12 - Ecological information

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

Product		Species	Test Results
CF451A			
	<b>Aquatic</b>		
	Algae	ErC50	Algae > 100 mg/l, 72 Hours
	Crustacea	EC50	Crustacea > 100 mg/l, 48 Hours
	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** This product has not been tested for ecological effects.

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## Section 13 - Disposal considerations

**Disposal methods** 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

### DOT

**UN number** Not regulated as dangerous goods.

**UN proper shipping name** Not Regulated

**Transport hazard class(es)**

**Class** Not assigned.

**Subsidiary risk** -

**Packing group** Not assigned.

**Environmental hazards**

**Marine pollutant** No

**Special precautions for user** Not assigned.

### IATA

**UN number** Not regulated as dangerous goods.

**UN proper shipping name** Not Regulated

**Transport hazard class(es)**

**Class** Not assigned

**Subsidiary risk** -

**Packing group** Not assigned

**Environmental hazards** No

**Special precautions for user** Not assigned

### IMDG

**UN number** Not regulated as dangerous goods.

**UN proper shipping name** Not Regulated

**Transport hazard class(es)**

**Class** Not assigned.

**Subsidiary risk** -

**Packing group** Not assigned.

**Transport hazard class(es)**

**Marine pollutant** No

**EmS** Not assigned.

**Special precautions for user** Not assigned.

## ADR

<b>UN number</b>	Not regulated as dangerous goods.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not assigned
<b>Subsidiary risk</b>	-
<b>Hazard No. (ADR)</b>	Not assigned
<b>Tunnel restriction code</b>	Not assigned
<b>Packing group</b>	Not assigned
<b>Environmental hazards</b>	No
<b>Soical precautions for user</b>	Not assigned
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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## Section 15 - Regulatory information

### Safety, health and environmental regulations

#### National regulations

##### High Volume Industrial Chemicals (HVIC)

Amorphous silica (CAS 7631-86-9) 10000 - 99999 TONNES See the regulation for additional information.

##### Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

##### National Pollutant Inventory (NPI) substance reporting list

Not listed.

##### Prohibited Carcinogenic Substances

Not regulated.

##### Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

##### Restricted Carcinogenic Substances

Not regulated.

##### Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

#### International regulations

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.

##### Stockholm Convention

Not applicable.

##### Rotterdam Convention

Not applicable.

##### Kyoto protocol

Not applicable.

##### Montreal Protocol

Not applicable.

##### Basel Convention

Not applicable.

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## Section 16 - Any other relevant information

<b>Issue date</b>	03-Aug-2018
<b>Revision date</b>	24-Mar-2023
<b>Other information</b>	This SDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003.

## Disclaimer

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This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds