



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name	HP Color LaserJet CF364A Imaging Drum Cartridge
Recommended use	This product is a yellow toner preparation that is used in HP Color LaserJet Enterprise flow MFF M880 series printers.
Issue date	08-Nov-2013
Revision date	10-Jul-2015
Version #	02
Company identification	Hewlett-Packard Australia Pty Ltd 353 Burwood Hwy Forest Hill, Victoria 3131 Australia Telephone +61 3 8833 5000 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 Centre 131 126 (24 hours)

2. HAZARDS IDENTIFICATION

Regulatory status	Australia: Non-hazardous substance. Non-dangerous goods.
GHS label elements	
Symbols	None.
Signal words	None.
Hazard statement	None.
Precautionary statement	
Prevention	None.
Response	None.
Storage	None.
Disposal	None.
Other hazards	None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	<90
Wax	Trade Secret	<10
Pigment	Trade Secret	<5
Amorphous silica	7631-86-9	<3

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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	CO ₂ , water, or dry chemical
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Extinguishing media which must not be used for safety reasons	None known.
Unusual fire & explosion hazards	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Fire fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Specific methods	None established.
HAZCHEM code	None.
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 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 at room temperature. Store away from strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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/m3	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/m3	Respirable fraction.

Biological limit values	No biological exposure limits noted for the ingredient(s).
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Recommended monitoring procedures

Additional exposure data	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)/%SiO ₂ , ACGIH (TWA/TLV): 10 mg/m3

Engineering measures to reduce exposure	Use in a well ventilated area.
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Personal protective equipment

General	No personal respiratory protective equipment required under normal conditions of use.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Physical state	Solid.
Color	Yellow
Odor	Slight plastic odor
Odor threshold	Not available.
pH	Not applicable
Vapor pressure	Not applicable
Boiling point	Not applicable

Melting point/Freezing point	Not available.
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Specific gravity	Not available.
Flash point	Not applicable
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not flammable
Auto-ignition temperature	Not applicable
Evaporation rate	Not applicable
Viscosity	Not applicable
Percent volatile	0 % estimated
Softening point	176 - 266 °F (80 - 130 °C)
Other data	
Decomposition temperature	> 392 °F (> 200 °C)
Oxidizing properties	No information available.

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Imaging Drum: Exposure to light
Materials to avoid	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

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/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	
Skin sensitization	Based on available data, the classification criteria are not met.
Respiratory sensitizer	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.
Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met.
Reproductivity	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 toxicity	Based on available data, the classification criteria are not met.
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.

Toxicological data

Components	Species	Test Results
Amorphous silica (CAS 7631-86-9)		
Acute		
<i>Oral</i>		
LD50	Mouse	> 15000 mg/kg
	Rat	> 22500 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product	Species		Test Results
CF364A			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 Hours
Ecotoxicity	LC50: > 100 mg/l, Fish, 96.00 Hours		
Environmental 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 .
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14. TRANSPORT INFORMATION

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
HAZCHEM code	None.

15. REGULATORY INFORMATION

National regulations	No information available.
Australia HVIC: Listed substance	
Amorphous silica (CAS 7631-86-9)	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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. OTHER INFORMATION

Other information	This MSDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003.
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.
Prepared by	Hewlett-Packard Company
Issue date	08-Nov-2013
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This data sheet contains changes from the previous version in section(s):	TOXICOLOGICAL INFORMATION: Aspiration toxicity TOXICOLOGICAL INFORMATION: Chronic toxicity TOXICOLOGICAL INFORMATION: Respiratory sensitizer TOXICOLOGICAL INFORMATION: Specific target organ toxicity - repeated exposure TOXICOLOGICAL INFORMATION: Specific target organ toxicity - single exposure
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