



SAFETY DATA SHEET

1. Product and company identification

Product name HP Color LaserJet CE320A-AD Black Print Cartridge
Company identification HP New Zealand
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Recommended use and Limitations on use

Recommended use This product is a black toner preparation that is used in HP LaserJet Pro CM1415, CP1525 series printers.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Symbols None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention None.
Response None.
Storage None.
Disposal None.

Other hazards

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.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Styrene acrylate copolymer	Trade Secret	<85
Wax	Wax Trade Secret	<10
Carbon black	1333-86-4	<6
Amorphous silica	Amorphous silica 7631-86-9	<2

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.
Potential delayed effects	Not available.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Extinguishing media	CO2, water, or dry chemical
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Special fire fighting procedures	If fire occurs in the printer, treat as an electrical fire.
Protection of fire-fighters	Not available.
Hazards from combustion products	Carbon monoxide and carbon dioxide.
Specific methods	None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Spill cleanup methods	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	
Precautions	Not available.
Safe handling advice	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.
Prevention of fire and explosion	Not available.
Storage	
Suitable storage conditions	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3.5 mg/m3

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.
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	

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.
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	, 5 mg/m3 (Respirable Fraction) , 3 mg/m3 (Respirable Particulate) Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO ₂ , ACGIH (TWA/TLV): 10 mg/m3 TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
Respiratory protection	Not available.
Skin protection	Not available.
Eye/face protection	Not available.
Radioactive or thermal hazards	Not available.
Hygiene measures	Not available.

9. Physical and chemical properties

Appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Black.
Odor	Slight plastic odor
Odor threshold	Not available.
pH	Not applicable
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not flammable
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Solubility(ies)	
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.

Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable
Softening point	176 - 266 °F (80 - 130 °C)
Percent volatile	0 % estimated
Other data	
Oxidizing properties	No information available.
Specific gravity	1 - 1.2

10. Stability and reactivity

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

Information on likely routes of exposure

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

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

Components	Species	Test Results
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Carbon black (CAS 1333-86-4)

Acute

Oral

LD50	Rat	> 10000 mg/kg
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Routes of exposure Not available.

Symptoms Not available.

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

Skin sensitizer 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.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
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Toxic to reproduction 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.

Chronic effects Not available.

Relevant negative data 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.

12. Ecological information**Ecotoxicological data**

Product	Species	Test Results
CE320A-AD		
Aquatic		
Fish	LC50 Fish	> 100 mg/l, 96 Hours
Ecotoxicity	LC50: > 100 mg/l, Fish, 96.00 Hours	
Persistence and degradability	Not available.	
Bioaccumulation	Not available.	
Partition coefficient n-octanol/water (log Kow)	Not available.	
Bioconcentration factor (BCF)	Not available.	
Mobility	Not available.	
Other hazardous effects	Not available.	

13. Disposal considerations

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 .
Special precautions	Not available.

14. Transport information

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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15. Regulatory information**Applicable regulations****New Zealand Inventory of Chemicals (NZIoC): Registration status**

Carbon black (CAS 1333-86-4)

HSNO Approved

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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.
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16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.
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Revision information

Fire-fighting measures: Specific hazards during fire fighting
Accidental release measures: Spill cleanup methods
Toxicological information: Eye contact
Toxicological information: Ingestion
Toxicological information: Inhalation
Toxicological information: Skin contact
Other information: Disclaimer

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