



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material name HP C3105A Black Toner
Product use This product is a black toner preparation that is used in HP Color LaserJet/Color LaserJet 5/5M series printers.
Version # 07
Revision Date 07-30-2008
Product use Color LaserJet & Color LaserJet 5 series printers
Company identification Hewlett-Packard (Canada) Co.
5150 Spectrum Way
Mississauga, Ontario
Canada
L4W 5G1

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199

General information telephone number
Canada 1-800-387-3867
HP Customer Care Line
(Toll-free) 1-800-474-6836
(Direct) 1-208-323-2551
Date prepared Jul 30, 2008
SDS number 279792

2. HAZARDS IDENTIFICATION

Acute health effects
Skin contact Unlikely to cause skin irritation.
Eye contact May cause transient slight irritation.
Inhalation Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.
Ingestion Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Potential health effects
Routes of exposure Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

Chronic health effects Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Carcinogenicity 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.

Other information This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
polyester	Trade Secret	< 95
CARBON BLACK	1333-86-4	< 12
Wax-1	Trade Secret	< 5
Wax-3	Trade Secret	< 5
SILICA, AMORPHOUS, FUMED	7631-86-9	< 3



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Titanium dioxide

13463-67-7

< 3

4. FIRST AID MEASURES

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 symptoms persist, get medical attention.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

5. FIRE-FIGHTING MEASURES

Flash point and method	not applicable
Hazardous combustion products	Carbon monoxide and carbon dioxide.
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	CO ₂ , water, or dry chemical
Unsuitable extinguishing media	None known.
Unusual fire and explosion hazard	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Protection of firefighters	
Protective equipment and precautions for firefighters	If fire occurs in the printer, treat as an electrical fire.
Special firefighting procedures	None established.

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. If a vacuum is used, the motor must be rated as dust explosion-proof. Clean remainder with a damp cloth or vacuum cleaner. 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. Store at room temperature in the original container. Keep the container tightly closed and dry. Store away from strong oxidizers.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
CARBON BLACK	1333-86-4	3.5 mg/m ³	Not established	Not established
Titanium dioxide	13463-67-7	10 mg/m ³	Not established	Not established

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

Personal protective equipment

General

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Colour	Black
Odour	Slight plastic odor
Odour threshold	Not available.
Physical state	Not available.
Form	solid
pH	not applicable
Melting point	Not available.
Freezing point	Not available.
Boiling point	not applicable
Flash point	not applicable
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not flammable
Vapour pressure	not applicable
Vapour density	not applicable
Specific gravity	1.1 (H ₂ O = 1)
Relative density	Not available.
Solubility in water	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	not applicable
Decomposition temperature	Not available.
Softening point	140 °C (284 °F)
Viscosity	not applicable



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10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability	Stable under normal storage conditions.
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. TOXICOLOGICAL INFORMATION

Component analysis - LD50	Amorphous silica: LD50:orl-rat: 3160 mg/kg, not harmful. Ames test negative.
Oral toxicity	LD50/oral/rat >5000mg/kg; Not harmful. (OECD 401). Not classified for Acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Inhalation toxicity	LC50: inh/rat 500 mg/m ³ /4 hrs., not harmful (OECD 403). Not classified for Acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Eye irritation	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
Sensitisation	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
Chronic toxicity	No information available.
Carcinogenicity	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 on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

CARBON BLACK (1333-86-4)	Inadequate data.
SILICA, AMORPHOUS, FUMED (7631-86-9)	Inadequate data.
Titanium dioxide (13463-67-7)	Inadequate data.

Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Reproductive toxicity	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).

Symptoms and target organs

NIOSH Pocket Guide - Target organs

CARBON BLACK (1333-86-4)	Eyes
CARBON BLACK (1333-86-4)	Respiratory system
CARBON BLACK (1333-86-4)	Serious health hazard. Flammable liquid. May polymerize explosively on loss of inhibitor.
SILICA, AMORPHOUS, FUMED (7631-86-9)	Eyes
SILICA, AMORPHOUS, FUMED (7631-86-9)	Eyes, resp sys
SILICA, AMORPHOUS, FUMED (7631-86-9)	Respiratory system
Titanium dioxide (13463-67-7)	Resp sys [in animals: lung tumors]
Titanium dioxide (13463-67-7)	Respiratory system

12. ECOLOGICAL INFORMATION

Persistence and degradability	Not available.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Do not put Toner into fire; Toner may cause severe burns. Dispose of in compliance with federal, state, and local regulations.
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14. TRANSPORT INFORMATION

IATA

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

WHMIS status Non-controlled

Classification and labeling



16. OTHER INFORMATION

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

HMIS® ratings Health: 1
Flammability: 1
Physical Hazard: 0

NFPA ratings Health: 1
Flammability: 1
Instability: 0

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Revision 7

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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