



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name C8550A
Issue date 21-Mar-2012
Product use This product is a black toner preparation that is used in HP Color LaserJet 9500/9500mfp series printers.
Company identification Hewlett-Packard Korea
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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, 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.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

Other information

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

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.

Classification Not classified.
Physical hazards Not classified as a physical hazard.
Health hazards Not classified as a health hazard.
Environmental hazards Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	< 80
Wax	Trade Secret	< 15
Carbon black	1333-86-4	< 10

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 irritation persists, consult a physician.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

Important symptoms No available information.

Special notes to physician No available information

5. FIRE-FIGHTING MEASURES

Flash point	Not applicable
Extinguishing media	CO ₂ , water, or dry chemical
Extinguishing media to avoid	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.
Protection of fire-fighters	If fire occurs in the printer, treat as an electrical fire.
Special fire fighting procedures	None established.
Hazardous combustion products	Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	Minimise dust generation and accumulation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

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. Store away from strong oxidizers. Keep tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Korea

Components	Type	Value
Carbon black (1333-86-4)	TWA	3.5000 mg/m ³
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m ³

ACGIH

Components	Type	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m ³	Inhalable fraction.
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m ³	

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)

Engineering measures Use in a well ventilated area.

Personal protective equipment

General

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Fine powder

Form	solid
Physical state	Solid
Colour	Black.
Odour	Slight plastic odor
Odour threshold	Not available.
pH	Not applicable
Melting point	Not available.
Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability limits in air, lower, % by volume	Not flammable
Flammability limits in air, upper, % by volume	Not available.
Vapour pressure	Not applicable
Solubility	Negligible in water. Partially soluble in toluene and xylene.
Vapour density	Not available.
Specific gravity	1 - 1.2 (H ₂ O = 1)
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Viscosity	Not applicable
Molecular weight	Not available.
VOC	Not available.
Softening point	100 - 150 °C (212 - 302 °F)
Other data	
Percent volatile	0 % estimated
Other information	Decomposition temperature: > 200 °C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Oral toxicity	LD50/oral/rat >2000mg/kg; Not harmful. (OECD 401). Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
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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.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

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

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

IARC Monographs: Evidence of carcinogenicity in humans

Titanium dioxide (CAS 13463-67-7) Inadequate data.

Inhalation toxicity No information available.

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Chronic toxicity No information available.

Sensitisation Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).

Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Reproductivity 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 aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicity LL50: > 1000 mg/l, Fish, 96.00 Hours

13. DISPOSAL CONSIDERATIONS

Local disposal regulations 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

15. REGULATORY INFORMATION**Local regulations****Korea Existing Chemicals Inventory (KECI): Registration Status/KECI or Classification number**

Titanium dioxide (CAS 13463-67-7) 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

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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Revision date 21-Mar-2012

Version No. 07

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

Product and Company Identification: Physical States
HAZARDS IDENTIFICATION: Carcinogenicity
Composition / Information on Ingredients: Ingredients
PHYSICAL AND CHEMICAL PROPERTIES: Colour
TOXICOLOGICAL INFORMATION: Carcinogenicity
TOXICOLOGICAL INFORMATION: Further information
Ecological Information: Ecotoxicity

Manufacturer information

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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: <value>	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds