



# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name** C8550A

**Product use** This product is a black toner preparation that is used in HP Color LaserJet 9500/9500mfj series printers.

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### Recommended use and Limitations on use

**Recommended use** This product is a black toner preparation that is used in HP Color LaserJet 9500/9500mfj series printers.

## 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	EC-No.	Classification
Styrene acrylate copolymer	Trade Secret	< 80		
Wax	Trade Secret	< 15		
Carbon black	1333-86-4	< 10	215-609-9	

polyester	Trade Secret	< 10	
Titanium dioxide	13463-67-7	< 1	236-675-5

#### 4. 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.
<b>Expected acute symptoms and delayed symptoms</b>	Not available.
<b>Personal protection for first-aid responders</b>	Not available.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	Not applicable
<b>Extinguishing media</b>	CO2, water, or dry chemical
<b>Extinguishing media to avoid</b>	None known.
<b>Specific hazards</b>	None.
<b>Unusual fire &amp; explosion hazards</b>	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
<b>Specific methods</b>	None established.
<b>Special fire fighting procedures</b>	None established.
<b>Protection of fire-fighters</b>	If fire occurs in the printer, treat as an electrical fire.
<b>Hazardous combustion products</b>	Carbon monoxide and carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Minimise dust generation and accumulation.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
<b>Clean-up methods and materials and containment measures</b>	Not available.
<b>Prevention of secondary hazards</b>	Not available.
<b>Other information</b>	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. Dispose of in compliance with federal, state, and local regulations.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	
<b>Precautions</b>	Not available.
<b>Safe handling advice</b>	Not available.
<b>Storage</b>	
<b>Suitable storage conditions</b>	Not available.
<b>Incompatible materials</b>	Not available.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure limits</b>			
<b>China</b>			
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon black (1333-86-4)	TWA	4.0000 mg/m3	Total dust.

Components	Type	Value	Form
Titanium dioxide (13463-67-7)	TWA	8.0000 mg/m3	Total dust.

**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)  
 TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)  
 UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust)

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

**Personal protective equipment**

**Respiratory protection** Not available.  
**Hand protection** Not available.  
**Eye protection** Not available.  
**Skin and body protection** Not available.

**Hygiene measures** Not available.

**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**

**Physical state** Solid.  
**Form** solid  
**Colour** Black.

**Odour** Slight plastic odor

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

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

**Vapour pressure** Not applicable

**Vapour density** Not available.

**Evaporation rate** Not applicable

**Relative density** Not available.

**Density** Not available.

**Solubility** 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** 100 - 150 °C (212 - 302 °F)

**Percent volatile** 0 % estimated

**Kinematic viscosity** Not available.

**Other data**

**Kinematic viscosity temp** Not available.

**Other information** Decomposition temperature: > 200 °C

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## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal storage conditions.

<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Conditions to avoid</b>	None.
<b>Incompatible materials</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

<b>Oral toxicity</b>	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.
<b>Carcinogenicity</b>	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.
<b>Inhalation toxicity</b>	No information available.  Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
<b>Chronic toxicity</b>	No information available.
<b>Sensitisation</b>	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US).
<b>Mutagenicity</b>	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
<b>Reproductivity</b>	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).
<b>Further information</b>	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

### Ecotoxicological data

Product	Test results
HP Color LaserJet C8550A Black Print Cartridge ( )	LL50 Fish: > 1000 mg/l 96.00 Hours
Components	Test results
Titanium dioxide (13463-67-7)	EC50 Water flea (Daphnia magna): > 1000 mg/l 48.00 hours LC50 Mummichog (Fundulus heteroclitus): > 1000 mg/l 96.00 hours
<b>Ecotoxicity</b>	LL50: > 1000 mg/l, Fish, 96.00 Hours
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Other hazardous effects</b>	Not available.

## 13. DISPOSAL CONSIDERATIONS

<b>Local disposal regulations</b>	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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .
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## 14. TRANSPORT INFORMATION

<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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## 15. REGULATORY INFORMATION

### Applicable regulations

**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.

**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.

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

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### 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: &lt;value&gt;</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds