

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation	HP Color LaserJet Q3960A Black Print Cartridge
Product use	This product is a black toner preparation that is used in HP Color LaserJet 2550/2820/2840 series printers.
Version #	06
Revision date	13-Apr-2012
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Acute hea	Ith effects	
Sk	in contact	Unlikely to cause skin irritation.
Ey	e contact	May cause transient slight irritation
In	halation	Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.
In	gestion	Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.
Potential l	health effects	
Ro	outes 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.
Ch	ronic 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.
Ca	rcinogenicity	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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	< 80
Wax	Trade Secret	< 15

Carbon black	1333-86-4 < 10
Titanium dioxide	13463-67-7 < 1
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 a 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.
5. Fire Fighting Measures	5
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	CO2, water, or dry chemical
Unsuitable extinguishing media	None known.
Protection of firefighters	
Protective equipment and precautions for firefighters	If fire occurs in the printer, treat as an electrical fire.
Specific methods	None established.
Hazardous combustion products	Carbon monoxide and carbon dioxide.
6. Accidental Release Me	asures
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 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. Store at room temperature. Store away from strong oxidizers. Keep tightly closed and dry.
8. Exposure Controls / Po	ersonal Protection
Occupational exposure limits	
ACGIH	

Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m3	

U.S OSHA				
Components		Туре	Value	Form
Titanium dioxide (13463-67-7)		PEL	15.0000 mg/m3	Total dust.
U.S Tennessee				
Components		Туре	Value	Form
Carbon black (1333-86-4) Titanium dioxide (13463-67-7)		TWA TWA	3.5000 mg/m3 10.0000 mg/m3	Total dust.
Exposure guidelines	usa osha (twa/pi	EL): 15 mg/m3 (Total [Dust), 5 mg/m3 (Respirable	Fraction)
	ACGIH (TWA/TLV):	10 mg/m3 (Inhalable I	Particulate), 3 mg/m3 (Resp	irable Particulate)
Engineering controls	Use in a well ventila	ated area.		
Personal protective equipment				
General	No personal respira	tory protective equipment	ent required under normal o	onditions of use.
9. Physical & Chemical Pr	operties			
Appearance	Fine powder			
Color	Black.			
Ddor	Slight plastic odor			
Ddor threshold	Not available.			
Physical state	Solid			
Form	solid			
ЭΗ	Not applicable			
Melting point	Not available.			
reezing point	Not available.			
Boiling point	Not applicable			
lash point	Not applicable			
Evaporation rate	Not applicable			
Flammability limits in air, apper, % by volume	Not available.			
Flammability limits in air, lower, % by volume	Not flammable			
Vapor pressure	Not applicable			
/apor density	Not available.			
Specific gravity	1 - 1.2 (H2O = 1)			
Relative density	Not available.			
Solubility (water)	Negligible in water.	Partially soluble in tol	uene and xylene.	
Auto-ignition temperature	Not applicable		-	
Decomposition temperature	Not available.			
Softening point	212 - 302 °F (100 -	150 °C)		
/iscosity	Not applicable			
Percent volatile	0 % estimated			
VOC	Not available.			
Other information	Decomposition tem	perature: > 200 ° C		
10. Chemical Stability & I	Reactivity Infor	rmation		
Chemical stability	Stable under norma	al storage conditions.		
Conditions to avoid	Imaging Drum: Exp	-		
Incompatible materials	Strong oxidizers			
Userandono de commo sitism		بر ما مع بالم من ما تعريد أما م		

Carbon monoxide and carbon dioxide.

Hazardous decomposition products

11. Toxicological Inform	lation		
Oral toxicity	LD50/oral/rat >2000 mg/kg; (OECD 401); Not harmful Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.		
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 titaniur 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.		
ACGIH Carcinogens			
Carbon black (CAS 1333	humans.		
Titanium dioxide (CAS 13 IARC Monographs. Overa	3463-67-7) A4 Not classifiable as a human carcinogen. Il Evaluation of Carcinogenicity		
Carbon black (CAS 1333- Titanium dioxide (CAS 1: IARC Monographs: Evider	, , ,		
Titanium dioxide (CAS 1	3463-67-7) Inadequate data.		
Inhalation toxicity	LC50: inh/rat 5 mg/l/4 hrs., (OECD 403).		
	Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and 1999/45/EC.		
Serious eye damage/eye irritation	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.		
Chronic toxicity	No information available.		
Sensitization	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).		
Symptoms and target organs			
Target Organs (NIOSH)			
Titanium dioxide (CAS 13	3463-67-7) Respiratory system		
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.		
12. Ecological Informati	on		
Ecotoxicity	LL50: > 1000 mg/l, Fish, 96.00 Hours		
Persistence and degradability	V Not available.		
13. Disposal Considerati	ions		
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		

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

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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15. Regulatory Information	tion
US federal regulations	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.
CERCLA (Superfund) reportal None	ble quantity
Occupational Safety and Heal	Ith Administration (OSHA)
29 CFR 1910.1200 hazardous chemical	Νο
Superfund Amendments and	Reauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	Νο
Section 311 hazardous chemical	No
State regulations	
US - Pennsylvania RTK - I	Hazardous Substances: Listed substance
Titanium dioxide (CAS 1	3463-67-7) 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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.
16. Other Information	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
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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This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Physical States Composition / Information on Ingredients: Ingredients Ecological Information: Ecotoxicity
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