

1. Chemical Product and Company Identification

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Material name	C4960A		
Use of the preparation	Inkjet printing		
Version #	03		
Revision date	26-Mar-2008		
CAS #	Mixture		
Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US		
Hewlett-Packard health effe	ects line		
(Toll-free within the US) (Direct)	1-800-457-4209 1-503-494-7199		
General information telepho	one number		
HP Customer Care Line	1-800-474-6836		
(Toll-free) (Direct)	1-800-474-6836 1-208-323-2551		
Date prepared	Mar 26, 2008		
2. Hazards Identification			
Emergency overview	Contact with skin and eyes may result in irritation.		
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.		
Skin contact			
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.		
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.		
Eye contact			
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.		
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.		
Inhalation			
	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.		
	<i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.		
Ingestion			
-	2-pyrrolidone		
	Ingestion may result in nausea, vomiting and diarrhea.		



Potential health effects Routes of exposure	Potential routes of overexposure to this product are skin and eye contact		
	Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.		
	Complete toxicity data are not available for this specific formulation		
Chronic health effects	Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink.		
Carcinogenicity	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.		

Component/substance	CAS number	% by weight
Water	7732-18-5	> 80
Tetraethylene glycol 2-pyrrolidone	112-60-7 616-45-5	< 7.5 < 5
Carbon black	1333-86-4	< 5
Composition comments	This ink supply contains an aqueous ink formu This product has been evaluated using criteria Communication Standard).	

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 get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

• •	ine righting measures		
	Flash point and method	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup	
	Hazardous combustionRefer to section 10.products		
	Flammable properties	None known.	
Extinguishing media			
	Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.	
	Unsuitable extinguishing media	None known.	
Unusual fire and explosion hazard		None known.	
	Special firefighting procedures	None established.	



Accidental Release Measu	ires				
Personal precautions	Wear app	propriate personal prot	ective equipment.		
Environmental precautions	Do not le	t product enter drains.	Do not flush into surface wa	ater or sanitary sewer system.	
Methods for containment		Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.			
Methods for cleaning up	Soak up v	with inert absorbent m	aterial.		
Other information	other sea		of in compliance with federa	veep the material into a bag or al, state, and local regulations. See	
Handling and Storage					
Handling	Avoid cor	ntact with skin, eyes ar	nd clothing.		
Storage	Keep out	of the reach of childre	n. Keep away from excessive	e heat or cold.	
xposure limits ACGIH Components	CAS #	TWA	STEL	Ceilina	
Components	CAS #	TWA	STEL	Ceiling	
Carbon black	1333-86-4	3.5 mg/m3	Not established	Not established	
OSHA					
Components	CAS #	TWA	STEL	Ceiling	
Carbon black	1333-86-4	3.5 mg/m3	Not established	Not established	
Exposure guidelines ACGIH - Threshold Limits Value Carbon black	•	hted Averages (TLV-T\	2		
U.S OSHA - Final PELs - Time Carbon black	e Weighted Ave 1333-86-		n3 TWA		
Personal protective equipm	ent				
General	Use perso	onal protective equipm	ent to minimize exposure to	skin and eye.	
Eye / face protection	Not requi	red under intended us	e.		
Skin protection	Protected	l gloves not required u	nder intended use.		
Respiratory protection	For use o may be re		e (such as in the event of a l	arge spill), goggles and respirators	
				ty practice.	

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Color		Black
Odor threshold		Not available
Physical state		Liquid.
рН		7.8 - 8.4
Melting point		Not available



Freezing point	Not available
Boiling point	Not determined
Flash point	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	> 1 (air = 1.0)
Specific gravity	1 - 1.2
Relative density	Not available
Solubility in water	Soluble in water
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	< 3 %
Viscosity	> 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.		
Incompatible materials	Incompatible with strong bases and oxidizing agents.		
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.		
Possibility of hazardous reactions	Will not occur.		

11. Toxicological Information

Carcinogenicity

U.S. - OSHA - Hazard Communication Carcinogens Carbon black 1333-86-4 Present Symptoms and target organs NIOSH - Pocket Guide - Target Organs Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

12. Ecological Information

Aquatic toxicity

LC50/96h/Fathead minnows =>750 mg/L

Persistence and degradability Not available



13. Disposal Considerations

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Disposal instructions	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. Transportation Informatio	n			
Department of Transportation (De)T) Requirements			
Not regulated as hazardous goods	i.			
IATA				
Proper shipping name	Not applicable			
Hazard class	Not applicable			
UN number	None			
Packing group	N/A			
Packaging exceptions	None			
15. Regulatory Information				
US federal regulations	US TSCA 12(b): Contains tetrahydrofuran (CASRN 109-99-9), subject to export notificat requirements.	tion		
CERCLA (Superfund) reportab None	le quantity			
Superfund Amendments and I	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	No			
Section 311 hazardous chemical	No			
International regulations	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.			
State regulations				
U.S California - Proposition 65 -	Carcinogens List			
Carbon black	1333-86-4 carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)			
U.S Pennsylvania - RTK (Right t 2-pyrrolidone	o Know) List 616-45-5 Present			
U.S Pennsylvania - RTK (Right t Carbon black	o Know) List 1333-86-4 Present			
U.S New Jersey - Right to Know Carbon black	r Hazardous Substance List 1333-86-4 sn 0342			



16. Other Information

HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0			
NFPA ratings	Health: 1 Flammability: 1 Instability: 0			
Issue date	Mar 26 2008 3:33PM			
Revision	3			
Replaces sheet dated	Mar 28 2007 12:26PM			
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.			
MSDS sections updated	 Hazards Identification: Routes of exposure Hazards Identification: Chronic health effects Hazards Identification: Carcinogenicity Exposure Controls/Personal Protection: Respiratory 			
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			