

1. Chemical Product and Company Identification

Material name	C4940A	
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		
(Toll-free within the US) (Direct)	1-800-457-4209 1-503-494-7199	
General information telepho	ne 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		
Skin contact	<i>2-pyrrolidone</i> Contact with skin may result in irritation.	
Skin contact		
Skin contact Eye contact	Contact with skin may result in irritation. Tetraethylene glycol	
	Contact with skin may result in irritation. Tetraethylene glycol	
	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i>	
	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i>	
Eye contact	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i>	
Eye contact	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.	
Eye contact	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Tetraethylene glycol</i>	
Eye contact Inhalation	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.	
Eye contact	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.	
Eye contact Inhalation	Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Tetraethylene glycol</i>	



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 combustion products	Refer to section 10.	
	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	ropriate personal prote	ective equipment.			
Environmental precautions	Do not le	Do not let product enter drains. Do not flush into surface water 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	Soak up with inert absorbent material.				
Other information	other sea	Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.				
Handling and Storage						
Handling	Avoid cor	itact with skin, eyes ar	d clothing.			
Storage	Keep out	of the reach of childre	n. Keep away from excessive	e heat or cold.		
ACGIH 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		nted Averages (TLV-TV	2			
U.S OSHA - Final PELs - Time	e Weighted Ave	5 ()				
Carbon black	1333-86-4	4 3.5 mg/n	n3 TWA			
Carbon black Personal protective equipm		4 3.5 mg/n	n3 TWA			
	nent	5	n3 TWA ent to minimize exposure to	skin and eye.		
Personal protective equipm	lent Use perso	5	ent to minimize exposure to	skin and eye.		
Personal protective equip n General	uent Use perso Not requi	onal protective equipm	ent to minimize exposure to e.	skin and eye.		
Personal protective equipm General Eye / face protection	nent Use perso Not requi Protected	onal protective equipmon red under intended use gloves not required use ther than intended use	ent to minimize exposure to e. nder intended use.	skin and eye. arge spill), goggles and respirators		

_		
	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

13. Disposal Considerations			
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