

1. Product and Company	y Identification	
Identification of the preparation	CN680Series	
Product use	Inkjet printing	
Version #	02	
Revision date	04-Jan-2011	
CAS #	Mixture	
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 Identificatio		
Emergency overview Acute health effects	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>1,5-pentanediol</i> Contact with skin may result in irritation.	
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.	
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation.	
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.	
Inhalation	2-pyrrolidone Inhalation may result in respiratory irritation.	
Ingestion	<i>2-pyrrolidone</i> 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	
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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.	

3. Composition / Information on Ingredients

Components	CAS #	Percent
1,5-pentanediol	111-29-5	< 7.5

2-pyrrolidone		616-45-5	< 7.5
Carbon black		1333-86-4	< 5
Water		7732-18-5	> 75
Composition comments	This ink supply contains an aqueous ink Carbon black is present only in a bound This product has been evaluated using c Communication Standard).	form in this preparation.	.200 (Hazard
	Carbon black is present only in a bound	form in this preparation.	
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with least 15 minutes or until particles are read		
Skin contact	Wash affected areas thoroughly with mil develops or persists.	ld soap and water. Get medical a	ttention if irritation
Inhalation	Remove to fresh air. If symptoms persis	t, get medical attention.	
Ingestion	If ingestion of a large amount does occu	r, seek medical attention.	
5. Fire Fighting Measures	5		
Flammable properties	None known.		
Extinguishing media Suitable extinguishing media	Dry chemical, CO2, water spray or regul	ar foam.	
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	asures		
Personal precautions	Wear appropriate personal protective eq	uipment.	
Environmental precautions	Do not let product enter drains. Do not f	flush into surface water or sanita	ry sewer system.
Methods for containment	Dike the spilled material, where this is p or diatomaceous earth, commercial sorb		ent such as dry clay, sand
Methods for cleaning up	Soak up with inert absorbent material.		
Other information	Soak up with inert absorbent material. S sealed container. Dispose of in complian section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothir	ng.	
Storage	Keep out of the reach of children. Keep	away from excessive heat or cold	l.
8. Exposure Controls / P	ersonal Protection		
Occupational exposure limits			
ACGIH			
Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	

U.S Tennessee Components	Туре	Value
Carbon black (1333-86-4)	TWA	3.5000 mg/m3
	1WA	5.5000 mg/m5
xposure guidelines	Exposure limits have not been established	for this product.
ngineering controls	Use in a well ventilated area.	
Personal protective equipmen	t	
General hygiene considerations	Handle in accordance with good industrial	hygiene and safety practice.
General	Use personal protective equipment to mining	mize exposure to skin and eye.
. Physical & Chemical P	roperties	
ppearance	Not available.	
Color	Black.	
Ddor	Not available.	
Ddor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
Ж	7	
lelting point	Not available.	
reezing point	Not available.	
Boiling point	Not determined	
lash point	> 200 °F (> 93.3 °C) Pensky-Martens Clos	ed Cup
evaporation rate	Not determined	
lammability limits in air, Ipper, % by volume	Not available.	
Flammability limits in air, ower, % by volume	Not determined	
/apor pressure	Not determined	
/apor density	Not available.	
Specific gravity	1 - 1.2	
Relative density	Not available.	
Solubility (water)	Soluble in water	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
/iscosity	2 cp	
/OC	< 179 g/L	
Other information	VOC content (less water, less exempt comp emissions)	pounds) = < 781 g/L (U.S. requirement, not for
LO. Chemical Stability &	Reactivity Information	
Chemical stability	Stable under recommended storage condit	ions.
incompatible materials	Incompatible with strong bases and oxidizi	ng agents.
lazardous decomposition products		d gaseous nitrogen oxides, carbon monoxide, car
	- /	

reactions

11. Toxicological Information

Possibility of hazardous

Carcinogenicity

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Grour, 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.

Will not occur.

ACGIH Carcinogens		
Carbon black (CAS 133	3-86-4)	A4 Not classifiable as a human carcinogen.
IARC Monographs. Over		
Carbon black (CAS 133	3-86-4)	2B Possibly carcinogenic to humans.
IARC Monographs: Evide	ence of carcinogenicit	y in humans
Carbon black (CAS 133	3-86-4)	Inadequate data.
Serious eye damage/eye irritation	Not available.	
Skin sensitization	Not available.	
Symptoms and target organ	5	
Target Organs (NIOSH)		
Carbon black (CAS 133	3-86-4)	Eyes Respiratory system
Further information		has not been tested for toxicological effects. or potential health effects and Section 4 for first aid measures.
12. Ecological Informat	tion	
Aquatic toxicity	LC50/96h/Fathead n	ninnows =>750 mg/L.
Persistence and degradabilit	y Not available.	
13. Disposal Considerat	tions	
Disposal instructions		ance with federal, state, and local regulations.
Disposar instructions	HP's Planet Partners of HP original inkjet	ance with rederal, state, and local regulators. (trademark) supplies recycling program enables simple, convenient recycling and LaserJet supplies. For more information and to determine if this service ocation, please visit http://www.hp.com/recycle.
14. Transport Informat	ion	
Further information	Not a dangerous goo	od under United States DOT, IATA, ADR, IMDG, or RID.
DOT		
Not regulated as dangerous goo	ds.	
ΙΑΤΑ		
Basic shipping requirem	ents:	
Proper shipping name	Not applicable	
Hazard class	Not applicable	
UN number	None	
Packing group Additional information:	N/A	
Packaging exceptions Basic shipping requirem	None	
Labels required	None	
Additional information:	Hone	
Packaging non bulk	None	
IMDG		
Not regulated as dangerous goo	ıds	
RID		
Not regulated as dangerous goo	ıds	
15. Regulatory Informa		
CERCLA (Superfund) reporta None	ible quantity	
Occupational Safety and Hea	alth Administration (C	OSHA)
29 CFR 1910.1200 hazardous chemical	No	

Superfund Amendments and R	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
State regulations	
US - Pennsylvania RTK - H	lazardous Substances: Listed substance
2-pyrrolidone (CAS 616-4 Carbon black (CAS 1333-	•
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.
Issue date	04-Jan-2011
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names 11. Toxicological Information: Further information 14. Transport Information: Further information
Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

Explanation of abbreviations

ACGIHAmerican Conference of Governmental Industrial HygienistsCASChemical Abstracts ServiceCERCLAComprehensive Environmental Response Compensation and Liability ActCFRCode of Federal Regulations
CERCLA Comprehensive Environmental Response Compensation and Liability Act
Cede et Eederal Degulations
CFR Code of Federal Regulations
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