

1. Product and Company	y Identification	
Identification of the preparation	CN668Series[C]	
Product use	Inkjet printing. For use only in inkjet printing	
Version #	02	
Revision date	23-May-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	n	
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	2-pyrrolidone Contact with skin may result in irritation. Substituted diol	
Eye contact	Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Substituted diol</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 thi product under normal use conditions.	
	Complete toxicity data are not available for this specific formulation	
Chronic health effect	s None known.	
Carcinogenicity	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.	

3. Composition / Information on Ingredients

Components	CAS #	Percent
2-pyrrolidone	616-45-5	15 - 20
Substituted diol	Proprietary	7.5 - 10

Acrylic-Styrene Polymer		N/A	5 - 7.5
Trade Secret blue colorant		Proprietary	1 - 2.5
Water		7732-18-5	>60
Composition comments	This ink supply contains an aqueous ink forn This product has been evaluated using criter Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with larg least 15 minutes or until particles are removed		
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, se	eek medical attention.	
5. Fire Fighting Measures	5		
Extinguishing media			
Suitable extinguishing media	Dry chemical, CO2, water spray or regular for	bam.	
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 equipn	nent.	
Environmental precautions	Do not let product enter drains. Do not flush	into surface water or sanita	ry sewer system.
Methods for containment	Dike the spilled material, where this is possil or diatomaceous earth, commercial sorbents		ent such as dry clay, sand
Methods for cleaning up	Soak up with inert absorbent material.		
Other information	Soak up with inert absorbent material. Slowl sealed container. Dispose of in compliance w section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothing.		
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.		
8. Exposure Controls / P	ersonal Protection		
Exposure guidelines	Exposure limits have not been established for	or this product.	
Personal protective equipmen	t		
General hygiene considerations	Handle in accordance with good industrial hy	ygiene and safety practice.	
General	Use personal protective equipment to minim	ize exposure to skin and eye	
9. Physical & Chemical P	roperties		
Appearance	Not available.		
Color	Cyan		
Odor	Not available.		
Odor threshold	Not available.		

Physical state	Liquid
Form	Not available.
рН	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	200 °F (93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	246 g/l (Determined by EPA Method 24)
Other information	VOC content (less water, less exempt compounds) = 839 g/L (U.S. requirement, not for emissions) US EPA Method 24
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., fluorinated hydrocarbons and hydrogen fluoride.
Possibility of hazardous reactions	None known.
11. Toxicological Informa	ation
Carcinogenicity	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.
Acute toxicity	Not available.
Serious eye damage/eye irritation	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.
12. Ecological Information	on
Ecotoxicity	No information available.
Aquatic toxicity	No information available.
Persistence and degradability	Not available.
Chemical fate information	This product is highly soluble in water.
13. Disposal Consideration	ons
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. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

Not regulated as dangerous goods.		
15. Regulatory Information		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals. US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.	
CERCLA (Superfund) reporta None	ble quantity	
Occupational Safety and Hea	Ith Administration (OSHA)	
29 CFR 1910.1200 hazardous chemical	No	
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	No	
Section 311 hazardous chemical	No	
State regulations		
US - Pennsylvania RTK -	Hazardous Substances: Listed substance	
2-pyrrolidone (CAS 616-	-45-5) 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 preparatic 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	23-May-2011	
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

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



1. Product and Company	Identification
Identification of the preparation	CN668Series[B]
Product use	Inkjet printing. For use only in inkjet printing
Version #	02
Revision date	23-May-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 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.
	Substituted diol Contact with skin may result in irritation.
Eye contact	2-pyrrolidone Contact with eyes may result in irritation. Substituted diol Contact with eyes may result in irritation.
Inhalation	<i>2-pyrrolidone</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	None known.
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.

Components		CAS #	Percent
2-pyrrolidone		616-45-5	10 - 15
Substituted diol		Proprietary	7.5 - 10
Acrylic-Styrene Polymer		N/A	5 - 7.5
Carbon black		1333-86-4	1 - 2.5
Water		7732-18-5	>60
Composition comments	This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).		1200 (Hazard
	Carbon black is present only in a bound for	m in this preparation.	
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with lan least 15 minutes or until particles are remo		
Skin contact	Wash affected areas thoroughly with mild s develops or persists.	soap and water. Get medical a	attention if irritation
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, s	seek medical attention.	
5. Fire Fighting Measures	S		
Extinguishing media			
Suitable extinguishing media	Dry chemical, CO2, water spray or regular	foam.	
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	easures		
Personal precautions	Wear appropriate personal protective equip	oment.	
Environmental precautions	Do not let product enter drains. Do not flus	sh into surface water or sanita	ary sewer system.
Methods for containment	Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, said or diatomaceous earth, commercial sorbents, or recover using pumps.		pent such as dry clay, san
Methods for cleaning up	Soak up with inert absorbent material.		
Other information	Soak up with inert absorbent material. Slow sealed container. Dispose of in compliance section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothing.		
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.		
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
Exposure guidelines	Exposure limits have not been established	for this product.
Personal protective equipmen	t	
General hygiene considerations	Handle in accordance with good industrial	hygiene and safety practice.
General	Use personal protective equipment to minin	mize exposure to skin and eye.
9. Physical & Chemical P	roperties	
Appearance	Not available.	
Color	Black.	
Odor	Not available.	
Odor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
рН	Not available.	
Melting point	Not available.	
Freezing point	Not available.	
Boiling point	Not available.	
Flash point	200 °F (93.3 °C) Pensky-Martens Closed C	up
Evaporation rate	Not available.	
Flammability limits in air, upper, % by volume	Not available.	
Flammability limits in air, lower, % by volume	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Specific gravity	Not available.	
Relative density	Not available.	
Solubility (water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
VOC	256 g/l (Determined by EPA Method 24)	
Other information	VOC content (less water, less exempt comp US EPA Method 24	pounds) = 807 g/L (U.S. requirement, not for emissions)
10. Chemical Stability &	Reactivity Information	
Chemical stability	Stable under recommended storage condition	ions.

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., fluorinated hydrocarbons and hydrogen fluoride.
Possibility of hazardous reactions	None known.

11. Toxicological Information

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.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall	Evaluation of Carcinogenicity
Carbon black (CAS 1333-8	
	e of carcinogenicity in humans
Carbon black (CAS 1333-8	
Acute toxicity	Not available.
Serious eye damage/eye irritation	Not available.
Symptoms and target organs	
Target Organs (NIOSH)	
Carbon black (CAS 1333-8	6-4) Eyes Respiratory system
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.
12. Ecological Informatio	n
Ecotoxicity	No information available.
Aquatic toxicity	No information available.
Persistence and degradability	Not available.
Chemical fate information	This product is highly soluble in water.
13. Disposal Consideratio	ns
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. Transport Information	n
DOT	
Not regulated as dangerous goods.	
ΙΑΤΑ	
Not regulated as dangerous goods.	
IMDG	
Not regulated as dangerous goods.	
RID	
Not regulated as dangerous goods.	
15. Regulatory Information	on
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.
CERCLA (Superfund) reportable None	e quantity
Occupational Safety and Health 29 CFR 1910.1200 hazardous chemical	n Administration (OSHA) No
Superfund Amendments and Re	eauthorization 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

2-pyrrolidone (CAS 616- 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.
L6. Other Information	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
IMIS® 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 preparati 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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COC	Cleveland Open Cup
DOT	Department of Transportation
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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