C4900Series[B]-MSDS\_US-English-07.pdf

C4900Series[Y]-MSDS\_US-English-04.pdf



Invent	
1. Product and Company	y Identification
Identification of the preparation	C4900Series[B]
Product use	Inkjet printing
Version #	06
Revision date	31-Dec-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	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>Substituted diol</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.
	Substituted diol 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	<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

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information Components		CAS #	Percent
2-pyrrolidone		616-45-5	< 20
Substituted diol		Proprietary	< 2.5
Tetraethylene glycol		112-60-7	< 2.5
Water		7732-18-5	> 70
Composition comments	This ink supply contains an aqueous ink form This product has been evaluated using criteri Communication Standard).	ulation. a specified in 29 CFR 1910.	1200 (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 large least 15 minutes or until particles are remove		
Skin contact	Wash affected areas thoroughly with mild soa attention.	ap and water. If irritation pe	ersists get medical
Inhalation	Move to fresh air. If symptoms persist, get m	nedical attention.	
Ingestion	If ingestion of a large amount does occur, se	ek medical attention.	
5. Fire Fighting Measures	5		
Flammable properties	None known.		
Extinguishing media Suitable extinguishing media	CO2, water, dry chemical, or 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 equipm	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 possib 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. Slowly 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 col	d
8. Exposure Controls / P	ersonal Protection		
Exposure guidelines	Exposure limits have not been established for	r this product.	
Engineering controls	Use in a well ventilated area.		

Personal protective equipment		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	
General	Use personal protective equipment to minimize exposure to skin and eye.	

## 9. Physical & Chemical Properties

9. Physical & Chemical P	roperties
Appearance	Not available.
Color	Black. or Dark Grey
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	9.3 - 9.7
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not determined
Flash point	200 °F (93.3 °C) Setaflash Closed Tester
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor 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.
Viscosity	2 ср
voc	< 248 g/l
10. Chemical Stability &	Reactivity Information

# Lo. Chemical Stability of hazardousKeactivity InformationChemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decomposition<br/>productsUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon<br/>dioxide and/or low molecular weight hydrocarbons.Possibility of hazardous<br/>reactionsWill not occur.

## **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.
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

Aquatic toxicity	This product has not been tested for ecological effects.
Persistence and degradability	Not available.

# 13. Disposal Considerations

13. Disposal Consideration Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 Informatio	n
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous goods	
IATA	
Not regulated as dangerous goods	
IMDG	
Not regulated as dangerous goods	
RID	
Not regulated as dangerous goods	•
15. Regulatory Informati	
CERCLA (Superfund) reportabl	e quantity
None	
Occupational Safety and Healt	
29 CFR 1910.1200 hazardous chemical	No
•	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
State regulations	
US - Pennsylvania RTK - Ha	azardous Substances: Listed substance
2-pyrrolidone (CAS 616-4	
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.
Other information	Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and onvironment at work (Official Journal of Laws no 217/2002 item 1823 with further amendments).
16 Other Information	environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 1257 g/L (U.S. requirement, not for emissions)

# 16. Other Information

Other information
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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	31-Dec-2011
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 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



Inveni	
1. Product and Company	Identification
Identification of the preparation	C4900Series[Y]
Product use	Inkjet printing
Version #	04
Revision date	31-Dec-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>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with skin may result in irritation.
	2-pyrrolidone Contact with skin may result in irritation. Aliphatic diol
	Contact with skin may result in irritation. <i>Alkoxy ether phosphate</i> Contact with skin may result in severe irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
	<i>Yellow pigment</i> Contact with skin may result in irritation.
Eye contact	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with eyes may result in irritation.
	2-pyrrolidone Contact with eyes may result in irritation.
	Aliphatic diol Contact with eyes may result in irritation.
	Alkoxy ether phosphate Contact with eyes may result in irritation.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
	<i>Yellow pigment</i> Contact with eyes may result in irritation.

Inhalation	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Inhalation may result in respiratory irritation.
	2-pyrrolidone Inhalation may result in respiratory irritation.
	Aliphatic diol Inhalation may result in respiratory irritation.
	Alkoxy ether phosphate Inhalation may result in respiratory irritation.
	<i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.
Ingestion	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.
	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.
	<i>Alkoxy ether phosphate</i> Irritating to mouth, throat, and stomach.
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	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
1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	< 10
2-pyrrolidone		616-45-5	< 7.5
Aliphatic diol		Proprietary	< 5
Alkoxy ether phosphate		Proprietary	< 2
Tetraethylene glycol		112-60-7	< 5
Water		7732-18-5	> 70
Yellow pigment		Proprietary	< 5
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).		
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with la least 15 minutes or until particles are remo	5	,
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur,	seek medical attention.	
5. Fire Fighting Measure	s		
Flammable properties	Combustion generates toxic fumes of fluor	ide and/or fluorine compounds	s; phosphorus oxides.

#### Material name: C4900Series[Y] 10795 Version #: 04 Revision date: 31-Dec-2011 Print date: 31-Dec-2011

Extinguishing media Suitable extinguishing	CO2, water, dry chemical, or foam		
media			
Unsuitable extinguishing media	None known.		
Specific methods	Wear self contained breathing apparatus for fire fighting if necessary.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	pasures		
Personal precautions	Wear appropriate personal protective equipment.		
Environmental precautions	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 with inert absorbent material.		
Other information	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.		
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			
Exposure guidelines	Exposure limits have not been established for this product.		
Engineering controls	Use in a well ventilated area.		
Personal protective equipmen General hygiene considerations	t Handle in accordance with good industrial hygiene and safety practice.		
General	Use personal protective equipment to minimize exposure to skin and eye.		
9. Physical & Chemical P			
Appearance	Not available.		
Color	Yellow		
Odor	Not available.		
Odor threshold	Not available.		
Physical state			
Form	Liquid Not available.		
pH	8.7		
рп Melting point	Not available.		
Freezing point	Not available.		
Boiling point	Not determined		
Flash point	230 °F (110 °C) Setaflash Closed Tester US EPA Method 1020		
Evaporation rate	Not determined		
Flammability limits in air, upper, % by volume	Not available.		
Flammability limits in air, lower, % by volume	Not determined		
Vapor pressure	Not determined		
Vapor density	Not available.		
Specific gravity	1		
Relative density	- Not available.		
Solubility (water)	Soluble in water		
Auto-ignition temperature	Not determined		
Decomposition temperature	Not available.		
Material name: C4000Series[V]			

Viscosity	3 cP	
VOC	< 313 g/l	
Other information	L L	
10. Chemical Stability & I	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. Decomposition of this product may yield oxides of phosphorus. hydrogen fluoride fluorinated hydrocarbons	
Possibility of hazardous reactions	Will not occur.	
11. Toxicological Informa	ation	
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	, n	
Aquatic toxicity	This product has not been tested for ecological effects.	
Persistence and degradability	Not available.	
13. Disposal Consideration	 DNS	
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 Informatio	n	
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	
DOT		
Not regulated as dangerous goods.		
ΙΑΤΑ		
Not regulated as dangerous goods.		
IMDG		
Not regulated as dangerous goods.		
<b>RID</b> Not regulated as dangerous goods.		
<b>15. Regulatory Informati</b> US federal regulations		
-	US TSCA 12(b): Does not contain listed chemicals.	
CERCLA (Superfund) reportabl None		
Occupational Safety and Healt		
29 CFR 1910.1200 hazardous chemical	No	
Superfund Amendments and R	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	Νο	
Section 311 hazardous chemical	No	
State regulations		
US - Pennsylvania RTK - H	lazardous 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.	
Other information	<ul> <li>Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).</li> <li>Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).</li> <li>VOC content (less water, less exempt compounds) = &lt;1176 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)</li> </ul>	
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	31-Dec-2011	
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 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
<b>CERCLA</b> Comprehensive Environmental Response Compensation and Liability Act
Cede et Eederal Degulations
CFR Code of Federal Regulations
Cleveland Open Cup
<b>DOT</b> 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