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1. Product and Company	Identification
Identification of the preparation	C4904 Series
Product use	Inkjet printing
Version #	04
Revision date	18-Oct-2012
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.
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.
	<i>Aliphatic diol</i> Contact with skin may result in irritation.
	<i>Magenta pigment</i> Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with eyes may result in irritation.
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	<i>Aliphatic diol</i> Contact with eyes may result in irritation.
	Magenta pigment Contact with eyes may result in irritation.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Inhalation may result in respiratory irritation.
	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.
	<i>Aliphatic diol</i> 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.
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 < 5 Magenta pigment Proprietary Tetraethylene glycol 112-60-7 < 5 Water 7732-18-5 > 65 .i+i. ... This ink ... +---ink fo u a ti a Com

position comments	I his link supply contains an aqueous link 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 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. 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.
General advice	No additional information

5. Fire Fighting Measures

Flammable properties	Combustion generates toxic fumes of fluoride and/or fluorine compounds; phosphorus oxides.
Extinguishing media	
Suitable extinguishing media	CO2, water, dry chemical, or foam
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 Measures

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.

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 away from excessive heat or cold. Keep out of the reach of children.
8. Exposure Controls / P	ersonal Protection
Exposure guidelines	Exposure limits have not been established for this product.
Engineering 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 minimize exposure to skin and eye.
9. Physical & Chemical P	roperties
Appearance	Not available.
Color	Magenta
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	8.7
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.
Viscosity	3 cP
VOC	< 313 g/l
Other information	For other VOC regulatory data/information see section 15.
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. Decomposition of this product may yield oxides of phosphorus. hydrogen fluoride fluorinated hydrocarbons
Possibility of hazardous reactions	Will not occur.

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11. Toxicological Informa	
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 Informatio	n
Aquatic toxicity	This product has not been tested for ecological effects.
Persistence and degradability	Not available.
13. Disposal Consideration	ons
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	on
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mix	tures Code Number
Not regulated.	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated. Drug Enforcement Adminis Chemical Code Number	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not listed.	Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA (Superfund) reportabl	e quantity
None	
Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical	h Administration (OSHA) 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	No
Section 311 hazardous chemical	Νο

State regulations US. Massachusetts RTK -	Substance List
2-pyrrolidone (CAS 616-	
	Ind Community Right-to-Know Act
Not regulated. US. Pennsylvania RTK - H	lazardous Substances
2-pyrrolidone (CAS 616-	
US. Rhode Island RTK Not regulated.	
Regulatory information	The components of this product are reported in the following inventories: United States of America, European Union, Switzerland, Canada, Australia, Philippines, 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 environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = <1150 g/L (U.S. requirement, not for emissions). VOC data based on formulation (Organic compounds minus solids)
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	18-Oct-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names 9. Physical & Chemical Properties: Other information 15. Regulatory Information: Regulatory information

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

15. Regulatory Information: Other information

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