

Identification of the preparation	C4813Series
Product use	Inkjet printing
Version #	06
Revision date	06-Dec-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.
	Causes skin 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.
	<i>Alkyldicarboxylic acid</i> Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation.
	2-pyrrolidone Contact with eyes may result in irritation.
	<i>Alkyldicarboxylic acid</i> Contact can cause moderate to severe irritation and possible injury to the eyes.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	2-pyrrolidone Inhalation may result in respiratory irritation.
	Alkyldicarboxylic acid 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.
	Alkyldicarboxylic acid
	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Material name: C4813Series	MSDS US

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
Water		7732-18-5	< 70
1,5-pentanediol		111-29-5	< 15
2-pyrrolidone		616-45-5	< 7.5
Alkyldicarboxylic acid		Proprietary	< 5
Substituted napthalenesulfonat	e salt #7	Proprietary	< 5
Tetraethylene glycol		112-60-7	< 2.5
Composition comments	This ink supply contains an aqueous in This product has been evaluated using Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush wit least 15 minutes or until particles are r		
Skin contact	Wash affected areas thoroughly with m develops or persists.	nild soap and water. Get medical a	ttention if irritation
Inhalation	Remove to fresh air. If symptoms persi	ist, get medical attention.	
Ingestion	If ingestion of a large amount does occ	cur, seek medical attention.	
General advice	No additional information		

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.
Unsuitable extinguishing media	None known.
Specific methods	None established.
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.
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	ersonal Protection
Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area.
Personal protective equipmen	ıt
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	Not available.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	3.8
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 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 available.
Decomposition temperature	Not available.
Viscosity	2 cp
VOC	Not available.
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.
Possibility of hazardous reactions	Will not occur.
11. Toxicological Inform	ation
Serious eye damage/eye irritation	Not available.
Further information	This ink formulation has not been tested for toxicological effects

12. Ecological Informati Aquatic toxicity	
	LC50/96h/Fathead minnows =/< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%
Persistence and degradability	
13. Disposal Considerati	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 Informati	on
Further information DOT	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
Not regulated as dangerous good	S.
IATA	
Not regulated as dangerous good	S.
IMDG	
Not regulated as dangerous good	S.
RID	
Not regulated as dangerous good	5.
Not regulated. Drug Enforcement Admin	istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated.	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D)
Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated.	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D)
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Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportat None Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) ble quantity th Administration (OSHA)
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Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportal None Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical Superfund Amendments and Hazard categories Section 302 extremely	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) ole quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportat None Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical Superfund Amendments and Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) ole quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No No
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Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportal None Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical Superfund Amendments and Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - 2-pyrrolidone (CAS 616- US. New Jersey Worker a	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) ole quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List
Drug Enforcement Admin Not regulated. Drug Enforcement Admin Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportat None Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical Superfund Amendments and Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - 2-pyrrolidone (CAS 616-	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) ole quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List 45-5) nd Community Right-to-Know Act

US. Rhode Island RTK Not regulated.	
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. 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. Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, 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: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 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	06-Dec-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names 5. Fire Fighting Measures: Suitable extinguishing media 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 14. Transport Information: Further 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

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