

SAFETY DATA SHEET

1. Identification

Product identifier	C4812Series
Other means of identification	Not available.
Recommended use	Inkjet printing
Recommended restrictions	None known.
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-5020
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	65-75
1,5-pentanediol		111-29-5	< 15
2-pyrrolidone		616-45-5	< 7.5
Alkyldicarboxylic acid		Proprietary	< 7.5
Magenta Colorant		Proprietary	<2.5
Composition comments	This ink supply contains an aqueous ink formula	tion.	

THS INK S us ink formulation

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures	
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

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 hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	None established.

6. Accidental release measures

Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
containment and cleaning up	or diatomaceous earth, commercial sorbents, or recover using pumps.
Personal precautions, protective equipment and emergency procedures Methods and materials for	Wear appropriate personal protective equipment. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure controls/personal protection

Occupational exposure limits Biological limit values Exposure guidelines Appropriate engineering controls	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product. Use in a well ventilated area.
Individual protection measure	s, such as personal protective equipment
Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
Respiratory protection	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	e
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Physical state Liquid.

Color	Magenta	
Odor	Not available.	
Odor threshold	Not available.	
рН	3.8 - 4.2	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not determined	
Flash point	> 200.0 °F (> 93.3 °C) Setaflash Closed Cup	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not determined	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not determined	
Solubility(ies)		
Solubility (water)	Soluble in water	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	>= 2 cp	
Other information	For other VOC regulatory data/information see Section 15.	
VOC (Weight %)	191.37 g/l	

10. Stability and reactivity

Reactivity Chemical stability	Not available. Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
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.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological effects		
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	

Carcinogenicity		able data, the classification criteria are no		
Reproductive toxicity	Based on available data, the classification criteria are not met.			
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.			
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.			
Aspiration hazard	Based on avail	Based on available data, the classification criteria are not met.		
Further information		tity data are not available for this specific to n 2 for potential health effects and Sectio		
Components	Species	т	est Results	
2-pyrrolidone (CAS 616-45-5) Acute Oral				
LD50	Guinea pig	6	500 mg/kg	
LDSU				
	Rat	6	500 mg/kg	
Alkyldicarboxylic acid (CAS Propriet	tary)			
<i>Oral</i> LD50	Rat	2	260 mg/kg	
LDS0	Rac		:= 10000 mg/kg	
			.= 10000 mg/kg	
12. Ecological informatio	n			
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-	Static acute to		Test Results	
Aquatic toxicity Ecotoxicity Product	Static acute to	xicity (trout), survival (10 mg/L) = 100%		
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Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture)	Static acute to	xicity (trout), survival (10 mg/L) = 100%		
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Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish	Static acute to Static acute to	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas)	Test Results 417 mg/l, 96 hours	
Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic	Static acute to Static acute to	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas)	Test Results 417 mg/l, 96 hours	
Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea Alkyldicarboxylic acid (CAS Pro	Static acute to Static acute to LC50	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas) Species	Test Results 417 mg/l, 96 hours Test Results	
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13. Disposal considerations

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 information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

Further information

US federal regulations

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

US TSCA 12(b): Does not contain listed chemicals.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5)

US. California Proposition 65

Not Listed. Other information VOC content (less water, less exempt compounds) = 663.6 g/L (U.S. requirement, not for emissions)

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, including date of preparation or last revision		
Issue date	08-Apr-2015	
Version #	01	
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.	
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US Direct 1-650-857-5020	

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