

SAFETY DATA SHEET

1. Identification

Product identifier	C4812Series
Other means of identification	Not available.
Recommended use	Inkjet printing
Recommended restrictions	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP 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	n

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	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

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 formulat	tion.	

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

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 e	xplosive 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 ef	ffects
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	n
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	Based on avail	able data, the classification criteria are no	ot met.
Reproductive toxicity	Based on avai	able data, the classification criteria are no	ot met.
Specific target organ toxicity · single exposure	Based on avail	able data, the classification criteria are no	ot met.
Specific target organ toxicity • repeated exposure	Based on avail	able data, the classification criteria are no	ot met.
Aspiration hazard	Based on avail	able data, the classification criteria are no	ot met.
Further information		city data are not available for this specific on 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
	Rat	6	500 mg/kg
Alkyldicarboxylic acid (CAS Proprie	tary)		
Acute	.,		
Oral			
LD50	Rat	2	260 mg/kg
			<= 10000 mg/kg
			0.0
12. Ecological informatio	n		
12. Ecological informatio Aquatic toxicity	Static acute to	xicity (trout), survival (100 mg/L) = 100%	6
Aquatic toxicity	Static acute to	xicity (trout), survival (100 mg/L) = 100% xicity (trout), survival (10 mg/L) = 100%	0
-	Static acute to		o Test Results
Aquatic toxicity Ecotoxicity	Static acute to	xicity (trout), survival (10 mg/L) = 100%	
Aquatic toxicity Ecotoxicity Product	Static acute to	xicity (trout), survival (10 mg/L) = 100%	
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
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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)	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 Aquatic	Static acute to Static acute to LC50 EC50 pprietary)	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas) Species Water flea (Daphnia pulex)	Test Results 417 mg/l, 96 hours Test Results 13.21 mg/l, 48 hours
Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea Alkyldicarboxylic acid (CAS Pro Aquatic Crustacea	Static acute to Static acute to LC50 EC50 pprietary) EC50	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas) Species Water flea (Daphnia pulex) Water flea (Daphnia magna)	Test Results 417 mg/l, 96 hours Test Results 13.21 mg/l, 48 hours 350 - 400 mg/l, 48 hours
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Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea Alkyldicarboxylic acid (CAS Pro Aquatic Crustacea Fish Persistence and degradability	Static acute to Static acute to LC50 EC50 pprietary) EC50 LC50 Not available.	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas) Species Water flea (Daphnia pulex) Water flea (Daphnia magna)	Test Results 417 mg/l, 96 hours Test Results 13.21 mg/l, 48 hours 350 - 400 mg/l, 48 hours
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Aquatic toxicity Ecotoxicity Product C4812Series (CAS Mixture) Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea Alkyldicarboxylic acid (CAS Pro Aquatic Crustacea Fish Persistence and degradability Bioaccumulative potential Partition coefficient n-octa 2-pyrrolidone Alkyldicarboxylic acid	Static acute to Static acute to LC50 EC50 pprietary) EC50 LC50 Not available. Not available.	xicity (trout), survival (10 mg/L) = 100% Species Fathead minnow (Pimephales promelas) Species Water flea (Daphnia pulex) Water flea (Daphnia magna) Fish og Kow)	Test Results 417 mg/l, 96 hours Test Results 13.21 mg/l, 48 hours 350 - 400 mg/l, 48 hours
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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.

IATA

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 informationVOC content (less water, less exempt compounds) = 663.6 g/L (U.S. requirement, not for
emissions)Regulatory informationAll 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	13-May-2015
Revision date	28-Aug-2015
Version #	02
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.
Revision Information	Hazard(s) identification: Hazard(s) not otherwise classified (HNOC) Other information, including date of preparation or last revision: Disclaimer
Manufacturer information	HP 1501 Page Mill Road Palo Alto, CA 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