

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Trade name or designation of the mixture	C4817Series		
Registration number	-		
Synonyms	None.		
Issue date	05-Mar-2015		
Version number	02		
Revision date	28-Aug-2015		
Supersedes date	05-Mar-2015		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	Inkjet printing		
Uses advised against	None known.		
Company identification	HP Inc UK Limited Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03) Bracknell, United Kingdom RG12 1HN Telephone 44 (0) 879 013 0790		
	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 Poison Information Center 0207771 5307		

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

j			
Contains:	1,5-pentanediol, 2-pyrrolidone, Alkyldicarboxylic acid, Water		
Hazard pictograms	None.		
Signal word	None.		
Hazard statements	The mixture does not meet the criteria for classification.		
Precautionary statements			
Prevention	Not available.		
Response	Not available.		
Storage	Not available.		
Disposal	Not available.		
Supplemental label information	None.		
2.3. Other hazards	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.		

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

## **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	65-75	7732-18-5 231-791-2	-	-	
Classification:	-				
1,5-pentanediol	<15	111-29-5 203-854-4	01-2119449341-44-XXXX	-	
Classification:	-				
2-pyrrolidone	<7.5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
Alkyldicarboxylic acid	<5	Proprietary	01-2119896114-34-XXXX	-	
Classification:	Skin Irrit. 2;H315, Eye l	- Dam. 1;H318, STOT	SE 3;H335		
position comments	This ink supply co	ontains an aqueous i	nk formulation.		

## **SECTION 4: First aid measures**

General information	Not available.		
4.1. Description of 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.		
4.2. Most important symptoms and effects, both acute and delayed	Not available.		
4.3. Indication of any immediate medical attention and special treatment needed	Not available.		

## SECTION 5: Firefighting measures

General fire hazards	Not available.	
5.1. 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.	
5.2. Special hazards arising from the substance or mixture	Not available.	
5.3. Advice for firefighters Special protective equipment for firefighters	Not available.	
Special fire fighting procedures	Not available.	
Specific methods	None established.	

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, prot	tective equipment and emergency procedures
For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Not available.
6.2. Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	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.
6.4. Reference to other sections	Not available.
SECTION 7: Handling and	d storage

7.1. Precautions for safe handling	Avoid contact with skin, eyes and clothing.
7.2. Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.
7.3. Specific end use(s)	Not available.

## **SECTION 8: Exposure controls/personal protection**

No exposure limits noted for ingredient(s).	
No biological exposure limits noted for the ingredient(s).	
Not available.	
Not available.	
Not available.	
Exposure limits have not been established for this product.	
Use in a well ventilated area.	
s, such as personal protective equipment	
Use personal protective equipment to minimize exposure to skin and eye.	
Not available.	
Not available.	
Handle in accordance with good industrial hygiene and safety practice.	
Not available.	

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Color	Yellow
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.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	>= 2 cp
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
VOC (Weight %)	196.45 g/l

## **SECTION 10: Stability and reactivity**

10.1. Reactivity	Not available.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## **SECTION 11: Toxicological information**

**General information** 

Not available.

## 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are	e 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 sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria an	e not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
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 available data, the classification criteria are not met.		
Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	

Components	Species	1	Fest Results		
Alkyldicarboxylic acid (CAS Proprie	etary)				
Acute					
Oral					
LD50	Rat	2	260 mg/kg		
Mixture versus substance information	Not available.				
Other information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.				
SECTION 12: Ecological	information				
Aquatic toxicity	Static acute to	xicity (trout), survival (100 mg/L) = 100% xicity (trout), survival (10 mg/L) = 100%			
12.1. Toxicity					
Product		Species	Test Results		
C4817Series (CAS Mixture)					
Aquatic					
Acute					
Fish	LC50	Fathead minnow (Pimephales promelas)	< 400 mg/l, 96 hours		
Components		Species	Test Results		
2-pyrrolidone (CAS 616-45-5)					
Aquatic					
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours		
Alkyldicarboxylic acid (CAS Proprie	etary)				
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna)	350 - 400 mg/l, 48 hours		
Fish	LC50	Fish	101, 96 Hours		
12.2. Persistence and degradability	Not available.				
12.3. Bioaccumulative potential	Not available.				
Partition coefficient					
n-octanol/water (log Kow)					
2-pyrrolidone Alkyldicarboxylic acid		-0.85 -0.59			
Bioconcentration factor (BCF)	Not available.	0.05			
12.4. Mobility in soil	Not available.				
12.5. Results of PBT		Not a PBT or vPvB substance or mixture.			
and vPvB assessment					
12.6. Other adverse effects	Not available.				
SECTION 13: Disposal co	neideration	6			
-		3			
13.1. Waste treatment metho	as				

15.1. Waste treatment metho	ous
Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.
Disposal methods/information	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.

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

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I Not listed

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended** Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

#### Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

#### **Other EU regulations**

#### Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

**Other regulations** 

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	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.			
	<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> </ul>			
National regulations	Not available.			
15.2. Chemical safety assessment	Not available.			

## **SECTION 16: Other information**

References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Issue date	05-Mar-2015
Revision information	SECTION 2: Hazards identification: 2.3. Other hazards SECTION 16: Other information: Disclaimer
Training information	Not available.
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.
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	
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	
List of abbreviations Not available.	