

SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or	C4813Series
designation of the mixture	
Registration number	-
Synonyms	None.
Issue date	21-Jun-2013
Version number	05
Revision date	01-May-2016
Supersedes date	28-Aug-2015
1.2. Relevant identified uses o	f 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 Inc. health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Inc. 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

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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:	Eye Dam. 1;H318	-			
nposition comments	This ink supply co	ontains an aqueous i	ink formulation.		

SECTION 4: First aid measures

General information	Not available.
4.1. Description of first aid me	asures
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, pro-	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.

Keep out of the reach of children. Keep away from excessive heat or cold.

incompatibilities 7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.

Derived no-effect level (DNEL)

7.2. Conditions for safe

storage, including any

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Consumers	Dermal	6 mg/kg bw/d	Systemic long term
		Dermal	167 mg/kg bw/d	Systemic acute short ter
		Inhalation	17.1 mg/m3	Systemic long term
		Oral	5.2 mg/kg bw/d	Systemic long term
		Oral	33.3 mg/kg bw/d	Systemic acute short ter
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short ter
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
Alkyldicarboxylic acid (CAS Proprietary)	Consumers	Dermal	67 mg/kg	Systemic short term
		Dermal	43 mg/kg	Systemic long term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term
		Oral	67 mg/kg	Systemic short term
	Workers	Dermal	71 mg/kg	Systemic long term
		Dermal	67 mg/kg	Systemic short term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term
dicted no effect concentrations (PNEC	s)			
Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l	
		Intermittant	0.5 mg/l	Releases
		Marine water	0.05 mg/l	
		Sediment	0.4205 mg/kg	Freshwater
		Soil	0.0612 mg/kg	
		STP	10 mg/l	Sewage Treatment Plant
Alkyldicarboxylic acid (CAS Proprietary)	Not applicable	Freshwater	0.1 mg/l	-

Components	Туре	Route	Value	Form
		Intermittant	1 mg/l	Releases
		Marine water	0.01 mg/l	
		Sediment	0.079 mg/kg	Freshwater
		Sediment	0.0079 mg/kg	Marine water
		Soil	0.0177 mg/kg	
		STP	3 mg/l	Sewage Treatment Plant
Exposure guidelines	Exposure limits have not been esta	blished for this	product.	
8.2. Exposure controls				
Appropriate engineering controls	Use in a well ventilated area.			
Individual protection measure	es, such as personal protective eq	uipment		
General information	Use personal protective equipment	to minimize exp	osure to skin and e	ye.
Eye/face protection	Not available.			
Skin protection				
- Hand protection	Not available.			
- Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
Hygiene measures	Handle in accordance with good inc	dustrial hygiene	and safety practice.	
Environmental exposure controls	Not available.			

SECTION 9: Physical and chemical properties

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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: Toxicologic	al information

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General information	Not available		
11.1. Information on toxicolog	gical effects		
Acute toxicity	Based on ava	ilable data, the classification criteria are no	ot met.
Skin corrosion/irritation	Based on ava	ilable data, the classification criteria are no	ot met.
Serious eye damage/eye irritation	Based on ava	ilable data, the classification criteria are no	ot met.
Respiratory sensitization	Based on ava	ilable data, the classification criteria are no	ot met.
Skin sensitization	Based on ava	ilable data, the classification criteria are no	ot met.
Germ cell mutagenicity	Based on ava	ilable data, the classification criteria are no	ot met.
Carcinogenicity	Based on ava	ilable data, the classification criteria are no	ot met.
Reproductive toxicity	Based on ava	ilable data, the classification criteria are no	ot met.
Specific target organ toxicity - single exposure	Based on ava	ilable data, the classification criteria are no	ot met.
Specific target organ toxicity - repeated exposure	Based on ava	ilable data, the classification criteria are no	ot met.
Aspiration hazard	Based on ava	ilable data, the classification criteria are no	ot met.
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 Acute	etary)		
Oral			
LD50	Rat	2	260 mg/kg
Mixture versus substance information	Not available		
Other information		icity data are not available for this specific ion 2 for potential health effects and Sectio	
SECTION 12: Ecological	information	1	
Aquatic toxicity	Static acute t	oxicity (trout), survival (100 mg/L) = 100% oxicity (trout), survival (10 mg/L) = 100%	6
12.1. Toxicity			
Product		Species	Test Results
C4813Series			
Aquatic			
Acute			
Fich	LC50	Fathead minnow (Pimephales promelas)	< 400 mg/l, 96 hours
Fish			
Components		Species	Test Results
		Species	Test Results
Components		Species	Test Results

Material name: C4813Series

Components		Species	Test Results
Alkyldicarboxylic acid (CAS Proprie	tary)		
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		-0.85	
Alkyldicarboxylic acid		-0.59	
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	Not available.		
12.5. Results of PBT and vPvB assessment	Not a PBT or v	/PvB substance or mixture.	
12.6. Other adverse effects	Not available.		

SECTION 13: Disposal considerations

13.1. Waste treatment meth	ods
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.
	HD's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling o

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

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

ether is regulations	
Directive 96/82/EC (S	eveso 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.
	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).
National regulations	Not available.
15.2. Chemical safety assessment	See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References Information on evaluation method leading to the classification of mixture	Not available. Not available.
Issue date	21-Jun-2013
Revision information	None.
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 Inc. 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	
List of abbreviations	Not available.	

Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *English*

Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.

The REACH registration number(s), where applicable, completes an extended product SDS.

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Operational conditions			
Maximum duration	Up to 8 hours per day		
Frequency of exposure	< 240 days per year		
Process conditions	Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions		
	followed.		
Risk management measures			
Conditions and measures	Wear safety glasses with side shields (or goggles), if splashing is possible.		
related to Personal Protection			
	Wear appropriate chemical resistent gloves: see section 8 of the SDS.		
Equipment, hygiene and	Wear appropriate chemical resistent clothing.		
health evaluation	In case of inadequate ventilation wear respiratory protection.		
	Eye wash fountain and emergency showers are recommended.		
	Avoid breathing mist/vapours.		
	Avoid contact with skin, eyes and clothing.		
	Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.		
Good practice advice			
Use personal protective equipme	ent as required.		
Wash hands before breaks and a	after work.		
Keep good industrial hygiene and	d safety practice.		
Use only with adequate ventilati			
Do no eat, drink or smoke when			
Wash contaminated clothing be			
Store at room temperature.			
Environmental measures			
	in intercourse/unitercourselies		
Do not allow this material to dra			
-	ding to Local, State, Federal and Provincial Environmental Regulations.		
	ith appropriately licenced waste contractor.		
Use descriptors			
IS-Use at industrial sites			
PW-Widespread use by profession			
SU7-Printing and reproduction n	nedia		
PC18-Inks and Toners			
PROC1-Chemical production or r	refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.		
PROC2-Chemical production or r	refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions		
condition PROC8a-Transfer of substance o	tion in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment r mixture (charging and discharging) at non-dedicated facilities r mixture (charging and discharging) at dedicated facilities		
ERC5-Use at industrial site leading			
	is conclusion into/onto article (indoor)		
Additional information on prod			
	s on the label, the classification of the mixture is provided.		
Most of the water based inks are "not classified". The classification of the mixture is based on the individuel ingredients and their concentration within the mixture.			
All ingredients contributing to the classification are stated in Section 3 of the SDS.			
	nts on which the exposure assessment is based, are listed in section 8 of the SDS.		
	zing ingredients that may cause allergic reaction to certain people.		
Section 2 of the SDS states these			
1	WB01 English.pdi		