

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	C4846Series
Registration number	-
Synonyms	None.
Issue date	28-Jun-2013
Version number	03
Revision date	13-Aug-2015
Supersedes date	22-May-2015
1.2. Relevant identified uses of	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 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

Health hazards Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

Contains:

Hazard pictograms

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

1,5-pentanediol, 2-pyrrolidone, Alkyldicarboxylic acid, Alkyldiol ethoxylate, Cyan colorant, Water

Danger

Signal word	Danger
Hazard statements	
H318 H412	Causes serious eye damage. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment.
Response	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.
Storage	Not available.

Material name: C4846Series

Dispose of contents/container in accordance with local/regional/national/international regulations. None.

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

emical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
er	60-70	7732-18-5 231-791-2	-	-	
Classification:	-				
pentanediol	<10	111-29-5 203-854-4	01-2119449341-44-XXXX	-	
Classification:	-				
vrrolidone	<10	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
ldicarboxylic acid	<7.5	Proprietary	01-2119896114-34-XXXX	-	
Classification:	Skin Irrit. 2;H315, Eye D	am. 1;H318, STOT	SE 3;H335		
ldiol ethoxylate	<2.5	Proprietary	-	-	
Classification:	Acute Tox. 4;H302, Acut	e Tox. 4;H312, Ski	n Irrit. 2;H315, Eye Dam. 1;H31	8, Aquatic Chro	nic 2;H41
n colorant	<2.5%	Proprietary	01-0000016309-68-XXXX	-	
Classification:	Skin Irrit. 2;H315, Skin S	- Sens. 1;H317, Eye	Irrit. 2;H319, Aquatic Chronic 3;	H412	
Classification:	Skin Irrit. 2;H315, Skin S This ink supply cor			H412	

SECTION 4: First aid measures

General information	Not available.
4.1. Description of first aid me	asures
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
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	CO2, water, dry chemical, or foam
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, protective 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

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)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
Exposure guidelines	Exposure limits have not been established for this product.	
8.2. Exposure controls		
Appropriate engineering controls	Use in a well ventilated area. Provide adequate ventilation.	
Individual protection measures, such as personal protective equipment		
General information	Use personal protective equipment to minimize exposure to skin and eye.	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
- Hand protection	Not available.	
- Other	Wear appropriate chemical resistant clothing.	

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Respiratory protection	For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.
Thermal hazards	Not available.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Color	Cyan
Odor	Not available.
Odor threshold	Not available.
рН	3.8 - 4.3
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 230.0 °F (> 110.0 °C) Pensky-Martens 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 %)	< 221 g/l

SECTION 10: Stability and reactivity

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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 informationNot available.11.1. Information on toxicological effectsAcute toxicityBased on available data, the classification criteria are not met.Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eye
irritationCauses serious eye damage.

Respiratory sensitization		lable data, the classification criteria are no		
Skin sensitization		lable data, the classification criteria are no		
Germ cell mutagenicity		Based on available data, the classification criteria are not met.		
Carcinogenicity		lable data, the classification criteria are no		
Reproductive toxicity		lable data, the classification criteria are no		
Specific target organ toxicity - single exposure		lable data, the classification criteria are no	t met.	
Specific target organ toxicity - repeated exposure	Based on avai	lable data, the classification criteria are no	t met.	
Aspiration hazard	Based on avai	lable data, the classification criteria are no	t met.	
Components	Species	Т	est Results	
2-pyrrolidone (CAS 616-45-5) Acute				
<i>Oral</i> LD50	Cuinea nia	6	500 ma/ka	
LD30	Guinea pig		500 mg/kg	
	Rat	6.	500 mg/kg	
Alkyldicarboxylic acid (CAS Propri Acute Oral	ietary)			
LD50	Rat	2	260 mg/kg	
Mixture versus substance	Not available.	L		
information				
Other information		city data are not available for this specific on 2 for potential health effects and Sectio		
SECTION 12: Ecological	information			
Aquatic toxicity	Static acute to	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Static acute toxicity (trout), survival (100 mg/L) = 90% Static acute toxicity (trout), survival (10 mg/L) = 100%		
12.1. Toxicity				
Product		Species	Test Results	
C4846Series (CAS Mixture)				
Aquatic				
Acute				
Algae	EC50	Algae	> 100 mg/l, 72 hours	
Crustacea	EC50	Daphnia	> 66 mg/l, 48 hours	
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 Propri		/	<u>-</u>	
Aquatic	,,			
Crustacea	EC50	Water flea (Daphnia magna)	350 - 400 mg/l, 48 hours	
Fish	LC50	Fish	101, 96 Hours	
Crustacea	EC50	Daphnia	50 - 100 mg/l, 48 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	Not	-0.59		
Bioconcentration factor (BCF) 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.
	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 amended	/2006, REACH Annex XVII Substances subject to restriction on marketing and use as
Not listed.	
Directive 2004/37/EC: on mutagens at work	the protection of workers from the risks related to exposure to carcinogens and
Not regulated. Directive 92/85/EEC: on t are breastfeeding	the safety and health of pregnant workers and workers who have recently given birth or
Not regulated.	
Other EU regulations	
Directive 96/82/EC (Seve	so II) on the control of major-accident hazards involving dangerous substances
Not regulated. Directive 98/24/EC on the agents at work	e protection of the health and safety of workers from the risks related to chemical
Not regulated. Directive 94/33/EC on the	e protection of young people at work
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). 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).
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	28-Jun-2013
Revision information	1. Product and Company Identification: Alternate Trade Names Composition/Information on Ingredients 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
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.