

# 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	CB335 Series	
Registration number	-	
Synonyms	None.	
Issue date	14-May-2015	
Version number	03	
Revision date	18-May-2016	
Supersedes date	25-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

Contains:	1,5-pentanediol, 2-pyrrolidone, Modified carbon black, 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	Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.
2.3. Other hazards	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. 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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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

#### 3.2. Mixtures

### **General information**

eneral information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	75-85	7732-18-5 231-791-2	-	-	
Classification: -					
2-pyrrolidone	< 10	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
1,5-pentanediol	< 5	111-29-5 203-854-4	01-2119449341-44-XXXX	-	
Classification: -					
Modified carbon black	< 5	Proprietary	-	-	
Classification: -		-			
omposition comments	This ink supply co	ontains an aqueous i	ink formulation.		
	Carbon black is p	resent only in a bou	nd form in this preparation.		
ECTION 4: First aid m	neasures				
eneral information	Not available.				
1. Description of first aid	measures				
Inhalation		air. If symptoms per	rsist, 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 l	If ingestion of a large amount does occur, seek medical attention.			
2. Most important mptoms and effects, both ute and delayed	Not available.				
3. Indication of any mediate medical attentio id special treatment reded	Not available. n				
ECTION 5: Firefightin	-				
eneral fire hazards	Not available.				
<ul> <li>Production and a latence of a state</li> </ul>					

5.1. Extinguishing media Suitable extinguishing media	Dry chemical, CO2, water spray or regular 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, 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	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).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.
Darived no-offect level (DNEL)	

### Derived no-effect level (DNEL)

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 term
		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 term
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
Predicted no effect concentration	ons (PNECs)			
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
Exposure guidelines	Exposure limits have not been es	tablished for this	product.	
<b>3.2. Exposure controls</b>				
Appropriate engineering controls	Use in a well ventilated area.			
ndividual protection measures	s, such as personal protective e	equipment		
General information	Use personal protective equipment	nt to minimize exp	posure to skin and e	ye.
Eye/face protection	Not available.			
Skin protection				
- Hand protection	Not available.			
- Other	Not available.			
<b>Respiratory protection</b>	Not available.			
Thermal hazards	Not available.			
lygiene measures	Handle in accordance with good i	ndustrial hygiene	and safety practice.	

Material name: CB335 Series

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

### 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	7.5 - 8.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 230.0 °F (> 110.0 °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 %)	< 147 g/l
SECTION 10: Stability an	d reactivity

### SECTION 10: Stability and reactivity

10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous	Not available. Stable under recommended storage conditions. Will not occur.
reactions 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 toxicolog	ical 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 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 available data, the classification criteria are not met.       Carbon black is classified as a carcinogen by the LARC (possibly carcinogenic to humans, Group, Data) and by the State of California under Propositon Sb In their evaluations of carbon black, ben organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product mative, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.       Reproductive toxicity     Based on available data, the classification criteria are not met.       Specific target organ toxicity     Based on available data, the classification criteria are not met.       Specific target organ toxicity     Based on available data, the classification criteria are not met.       Components     Species     Test Results       Components     Species     Test Results       Components     Species     Test Results       Components     Species     Test Results       Components     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     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     Complete toxicity data are not move (Pimephales promelas) > 750 mg/l, 96 hours       Consorents     Species     Test Results       Aquatic				
28) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, resp. does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.       Reproductive toxicity     Based on available data, the classification criteria are not met.       Specific target organ toxicity     Based on available data, the classification criteria are not met.       Specific target organ toxicity     Based on available data, the classification criteria are not met.       Aspiration hazard     Based on available data, the classification criteria are not met.       Components     Species       Approxibane (CAS 616-45-5)     Acute       Acute     Oral       LDS0     Guinea pig       Goungete toxicity data are not available.     6500 mg/kg       Rat     6500 mg/kg       Rater to Section 2 for potential health effects and Section 4 for first aid measu	Carcinogenicity	Based on avai	able data, the classification criteria are not	t met.
Specific target organ toxicity - single exposure     Based on available data, the classification criteria are not met.       Apprecision regret 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)     Keute     Charl       Acute     Gran     Gran     Gran       D50     Guinea pig     6500 mg/kg       Rat     6500 mg/kg       Rat     6500 mg/kg       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     Not expected to be harmful to aquatic organisms.       12.1. Toxicity     Not expected to be harmful to aquatic organisms.       Product     Species     Test Results       Cangue     Species     Test Results       Cangue     Species     Test Results       Cangue     Species     Test Results       2-pyrrolidone (CAS 616-45-5)     Aquatic Charles     Species       Aquatic     Acute     Species     Test Results       2-pyrrolidone (CAS 616-45-5)     Aquatic Charles     Species       Aquatic     Species		2B) and by the organizations i bound within a	e State of California under Proposition 65. Indicate that exposure to carbon black, per a product matrix, specifically, rubber, ink, o	In their evaluations of carbon black, both r se, does not occur when it remains
- single exposure Specific target organ toxicity Specific targ	Reproductive toxicity	Based on avai	able data, the classification criteria are not	t met.
- repeated exposure       Aspiration hazard       Based on available data, the classification criteria are not met.         Components       Species       Test Results         >-pyrrolidone (CAS 616-45-5)       Acute       Ora/         Acute       Ora/       Giona pig       6500 mg/kg         LD50       Guinea pig       6500 mg/kg       Rat       6500 mg/kg         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       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 organisms.         Aquatic toxicity       Not expected to be harmful to aquatic organisms.         12.1. Toxicity       Product       Species         Product       Species       Test Results         Capatic Acute Fish       LC50       Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Jalamg/l, 48 hours         12.3. Bioaccumulative potential       Not available.       -0.85         12.3. Bioaccumulative potential       Not avai		Based on avail	able data, the classification criteria are not	t met.
Components     Species     Test Results       2-pyrrolidone (CAS 616-45-5) Acute Oral     Guinea pig     6500 mg/kg       Disc     Guinea pig     6500 mg/kg       ID50     Guinea pig     6500 mg/kg       Rat     6500 mg/kg       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     Not expected to be harmful to aquatic organisms.       121.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Not expected to be harmful to aquatic organisms.       21.1 roxicity     Species     Test Results       Components     Species     Test Results       2-pyrrolidone (CAS 616-45-5)     Value     Value       Aquatic     Crustacea     EC50     Water flea (Daphnia pulex)     13.21 mg/l, 48 hours       12.3. Bioaccumulative potential     Not available.     -0.85       12.3. Bioaccumulative potential     Not available.     -0.85       12.4. M		Based on avai	able data, the classification criteria are not	t met.
2-pyrrolidone (CAS 616-45-5) Acute <i>Crai</i> LD50 Guinea pig 6500 mg/kg Rat 6500 mg/kg Mixture versus substance information 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 Product Species Test Results CB335 Series Aquatic Acute Fish LC50 Fathead minnow (Pimephales promelas) > 750 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 12.2. Persistence and degradability 12.3. Bioaccumulative Not available. potential Partition coefficient n-otanol/water (Iog Kow) 2-pyrrolidone (BCF) Not available. 12.4. Mobility in soil Not available. 12.5. Results OFBT and VP.B assessment	Aspiration hazard	Based on avail	able data, the classification criteria are not	t met.
Acute Oral LD50       Guinea pig Rat       6500 mg/kg         Mixture versus substance information       Not available.       6500 mg/kg         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       Refer to Section 2 for potential health effects and Section 4 for first aid measures.         4quatic toxicity       Not expected to be harmful to aquatic organisms.         12.1. Toxicity       Not expected to be harmful to aquatic organisms.         21.1. Toxicity       Species       Test Results         C0335 Series       Aquatic Acute       Species       Test Results         C335 Series       Aquatic       Acute       Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results       Species       Test Results         2-pyrrolidone       C50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours       13.21 mg/l, 48 hours         12.2. Persistence and degradability       Not available.       -0.85       Species       Lessecies         12.3. Bioaccumulative potential       Not available.       -0.85       Lessecies       Lessecies         12.4. Mobility in soil       Not available	Components	Species	Т	est Results
Ora' LD50       Guinea pig Rat       6500 mg/kg         Mixture versus substance information       Not available.       6500 mg/kg         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.       5         SECTION 12: Ecological information       Not expected to be harmful to aquatic organisms.       1         12.1. Toxicity       Not expected to be harmful to aquatic organisms.       1         Product       Species       Test Results         CB335 Series       Aquatic Acute       Not expected to be harmful to aquatic organisms.       > 750 mg/l, 96 hours         CB335 Series       Aquatic Acute       Species       Test Results         2-pyrrolidone (CAS 616-45-5): Aquatic Crustacea       Species       Test Results         2-pyrrolidone (CAS 616-45-5): Aquatic Crustacea       Not available.       13.21 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       -         2.4. Mobility in soil       Not available.       -         12.4. Mobility in soil       Not available.       -         12.4. Mobility in	2-pyrrolidone (CAS 616-45-5)			
LD50     Guinea pig     6500 mg/kg       Rat     6500 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     Refer to Section 2 for potential health effects and Section 4 for first aid measures.       SECTION 12: Ecological information     Not expected to be harmful to aquatic organisms.       11. Toxicity     Not expected to be harmful to aquatic organisms.       12.1. Toxicity     Not expected to be harmful to aquatic organisms.       13.1. Toxicity     Not expected to be harmful to aquatic organisms.       13.1. Toxicity     Not expected to be harmful to aquatic organisms.       13.1. Toxicity     Not expected to be harmful to aquatic organisms.       12.2. Product     Species     Test Results       Aquatic     Acute     Fish     LC50       Fish     LC50     Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours       Components     Species     Test Results       4quatic     Crustacea     EC50     Water flea (Daphnia pulex)     13.21 mg/l, 48 hours       12.2. Persistence and degradability     Not available.     -     -       13.3.1 mg/l, Vat available.     -     -     -       12.4. Mobi	Acute			
Rat     6500 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 organisms.       Aquatic toxicity     Not expected to be harmful to aquatic organisms.       12.1. Toxicity     Not expected to be harmful to aquatic organisms.       Product     Species     Test Results       CB335 Series     Aquatic Acute Fish     LC50       Fish     LC50     Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours       Components     Species       2-pyrrolidone (CAS 616-45-5)     Aquatic Crustacea       Aquatic Crustacea     EC50     Water flea (Daphnia pulex)     13.21 mg/l, 48 hours       12.2. Persistence and degradability     Not available.     Intervelopie (Intervelopie and available.       12.3. Bioaccumulative potential     Not available.     -0.85       Partition coefficient n=octanol/water (log Kow) 2-pyrrolidone     -0.85       12.4. Mobility in soil     Not available.       12.5. Results of PBT and VPW assessment     Not available.	Oral			
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       Not expected to be harmful to aquatic organisms.         12.1. Toxicity       Product       Species       Test Results         CB335 Series       Aquatic Acute Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic Crustacea       Not available.         12.3. Bioaccumulative potential       Not available.       Not available.         12.3. Bioaccumulative potential       Not available.       -0.85         Bioconcentration factor (BCF)       Not available.       -0.85         Bioconcentration factor (BCF) and VPW assessment       Not available.       -0.85	LD50	Guinea pig	65	500 mg/kg
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 Not expected to be harmful to aquatic organisms.  12.1. Toxicity Product Species Test Results  CB335 Series  Aquatic Acute Fish LC50 Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours  Components Species Test Results  Components Species Test Results  Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours  12.2. Persistence and degradability  12.3. Bioaccumulative Not available.  12.4. Mobility in soil Not available.  12.4. Mobility in soil Not available.  12.5. Results of PBT and PBT or vPvB substance or mixture.  Acute PBT or vPvB substance or mixture.  Acute Pattern PBT and PBT or vPvB substance or mixture.  Acute PBT or vPvB substance or mixture.  A		Rat	65	500 mg/kg
Refer to Section 2 for potential health effects and Section 4 for first aid measures.         SECTION 12: Ecological information         Aquatic toxicity       Not expected to be harmful to aquatic organisms.         12.1. Toxicity         Product       Species       Test Results         CB335 Series       Aquatic       Acute         Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results       2-pyrrolidone (CAS 616-45-5)         Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         12.2. Persistence and degradability       Not available.       Out available.       Out available.       Out available.         Partition coefficient         n-octanol/water (log Kow)       -0.85       -0.85       -0.85       -0.85         Bioconcentration factor (BCF)       Not available.       Out available.       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85       -0.85		Not available.		
Aquatic toxicity       Not expected to be harmful to aquatic organisms.         12.1. Toxicity       Forduct       Species         Product       Species       Test Results         CB335 Series       Aquatic       Aquatic         Aquatic       Aquatic       Species       Species         Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Kot available.       Species       Test Results         Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         12.2. Persistence and degradability       Not available.       Species       Species         Partition coefficient n-octanol/water (log Kow)       -0.85       Species       Species         Partition coefficient n-octanol/water (log Kow)       -0.85       Species       Species       Species         Bioconcentration factor (BCF)       Not available.       Species       Species       Species         12.4. Mobility in soil       Not available.       Species       Species       Species         Species       -0.85       Species       Species       Species<	Other information			
12.1. Toxicity       Product       Species       Test Results         CB335 Series       Aquatic       Acute       Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Value       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Value       Value       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Value       Value       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Value       Test Results       Test Results         12.3. Results of BCS       Not available.       Test Results       Test Results         12.4. Mobility in soil       Not available.       Test Results       Test Results         12.5. Results of PBT and VPVB assessment       Not a PBT or VPvB substance or mixture.       Test Results       Test Results <td>SECTION 12: Ecological</td> <td>information</td> <td></td> <td></td>	SECTION 12: Ecological	information		
Product       Species         CB335 Series       Aquatic         Acute       Fish       LC50         Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         12.2. Persistence and degradability       Not available.       Varialable.       Varialable.         12.3. Bioaccumulative potential       Not available.       Varialable.       Varialable.         Partition coefficient n-octanol/water (log Kow)       -0.85       Varialable.       Varialable.         12.4. Mobility in soil       Not available.       Varialable.       Varialable.         12.5. Results of PBT and VPVB substance or mixture.       Not a PBT or VPVB substance or mixture.       Varialable.	Aquatic toxicity	Not expected	to be harmful to aquatic organisms.	
CB335 Series       Aquatic         Acute       Fish       LC50       Fathead minnow (Pimephales promelas)       > 750 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         12.2. Persistence and degradability       Not available.       13.21 mg/l, 48 hours       12.3. Bioaccumulative       Not available.         potential       Partition coefficient       n-octanol/water (log Kow)       -0.85       5         2-pyrrolidone       -0.85       Bioconcentration factor (BCF)       Not available.         12.4. Mobility in soil       Not available.       12.4. Mobility in soil       Not available.         12.5. Results of PBT and VPVB assessment       Not a PBT or vPvB substance or mixture.       Image: Not a PBT or vPvB substance or mixture.	12.1. Toxicity			
Aquatic       Acute         Fish       LC50       Fathead minnow (Pimephales promeles)       > 750 mg/l, 96 hours         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Test Results         Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         12.2. Persistence and degradability       Not available.       Isoaccumulative       Not available.         12.3. Bioaccumulative       Not available.       Isoaccumulative       Not available.         Partition coefficient       Not available.       Isoaccumulative       Isoaccumulative         Partition coefficient       Not available.       Isoaccumulative       Isoaccumulative         12.4. Mobility in soil       Not available.       Isoaccumulative       Isoaccumulative         12.4. Mobility in soil       Not available.       Isoaccumulative.       Isoaccumulative.         12.4. Mobility in soil       Not available.       Isoaccumulative.       Isoaccumulative.         12.5. Results of PBT       Not a PBT or VPVB substance or mixture.       Isoaccumulative.       Isoaccumulative.         12.5. Results of PBT       Not a PBT or VPVB substance or mixture.       Isoaccumulative.       Isoaccumulative.         12.5. Results of PBT	Product		Species	Test Results
Acute FishLC50Fathead minnow (Pimephales promelas)> 750 mg/l, 96 hoursComponentsSpeciesTest Results2-pyrrolidone (CAS 616-45-5)Aquatic CrustaceaISC50Water flea (Daphnia pulex)13.21 mg/l, 48 hoursAquatic degradabilityNot available.ISC50Water flea (Daphnia pulex)13.21 mg/l, 48 hours12.3. Bioaccumulative potentialNot available.ISC50ISC50Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone-0.85ISC50Bioconcentration factor (BCF)Not available0.8512.4. Mobility in soilNot available.ISC5012.5. Results of PBT and vPvB assessmentNot a PBT or VPB substance or mixture.ISC50	CB335 Series			
FishLC50Fathead minnow (Pimephales promelas)> 750 mg/l, 96 hoursComponentsSpeciesTest Results2-pyrrolidone (CAS 616-45-5)Aquatic CrustaceaEC50Water flea (Daphnia pulex)13.21 mg/l, 48 hours12.2. Persistence and degradabilityNot available.Isomorrow (Cas main pulex)Isomorrow (Cas main pulex)12.3. Bioaccumulative potentialNot available.Isomorrow (Cas main pulex)Isomorrow (Cas main pulex)Partition coefficient n-octanol/water (log Kow) 2-pyrrolidoneNot available.Isomorrow (Cas main pulex)12.4. Mobility in soilNot available.Isomorrow (Cas main pulex)Isomorrow (Cas main pulex)12.5. Results of PBT and vPvB assessmentNot a PBT Urb substance or mixture.Isomorrow (Cas main pulex)Isomorrow (Cas main pulex)	Aquatic			
ComponentsSpeciesTest Results2-pyrrolidone (CAS 616-45-5)Aquatic	Acute			
2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours 12.2. Persistence and Not available. degradability 12.3. Bioaccumulative Not available. potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone -0.85 Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available. 12.5. Results of PBT Not a PBT or vPvB substance or mixture. and vPvB assessment	Fish	LC50	Fathead minnow (Pimephales promelas)	> 7F0 mg/L OC hours
Aquatic CrustaceaEC50Water flea (Daphnia pulex)13.21 mg/l, 48 hours12.2. Persistence and degradabilityNot available.12.3. Bioaccumulative potentialNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidoneNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidoneNot available.12.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a PBT or VvB substance or mixture.	Common on to			> 750 mg/l, 96 nours
CrustaceaEC50Water flea (Daphnia pulex)13.21 mg/l, 48 hours12.2. Persistence and degradabilityNot available.12.3. Bioaccumulative potentialNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidoneNot available.Partition coefficient 12.4. Mobility in soilNot available.Not available0.8512.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a PBT or VPVB substance or mixture.	Components		Species	<b>-</b>
12.2. Persistence and degradabilityNot available.12.3. Bioaccumulative potentialNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidoneNot available.2-pyrrolidone-0.85Bioconcentration factor (BCF)Not available.12.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a PBT or vPvB substance or mixture.			Species	-
degradability12.3. Bioaccumulative potentialNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone-0.85Bioconcentration factor (BCF)Not available.12.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a PBT or vPvB substance or mixture.	2-pyrrolidone (CAS 616-45-5)		Species	-
12.3. Bioaccumulative potentialNot available.Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone-0.85Bioconcentration factor (BCF)Not available.12.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a PBT or vPvB substance or mixture.	2-pyrrolidone (CAS 616-45-5) Aquatic	EC50		Test Results
n-octanol/water (log Kow) 2-pyrrolidone-0.85Bioconcentration factor (BCF)Not available.12.4. Mobility in soilNot available.12.5. Results of PBT and vPvB assessmentNot a VPVB substance or mixture.	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and			Test Results
12.4. Mobility in soilNot available.12.5. Results of PBTNot a PBT or vPvB substance or mixture.and vPvBAssessment	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative	Not available.		Test Results
12.5. Results of PBT       Not a PBT or vPvB substance or mixture.         and vPvB       assessment	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)	Not available.	Water flea (Daphnia pulex)	Test Results
and vPvB assessment	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone	Not available. Not available.	Water flea (Daphnia pulex)	Test Results
<b>12.6. Other adverse effects</b> Not available.	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone Bioconcentration factor (BCF)	Not available. Not available. Not available.	Water flea (Daphnia pulex)	Test Results
	2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB	Not available. Not available. Not available. Not available.	Water flea (Daphnia pulex) -0.85	Test Results

### 13.1. Waste treatment methods

Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not allow this material to drain into sewers/water supplies. 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

IMDG

Not regulated as dangerous goods.

## 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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

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.

Directive 98/24/EC on the agents at work	ne protection of the health and safety of workers from the risks related to chemical
Not regulated. Directive 94/33/EC on th	ne 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).
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	14-May-2015
<b>Revision information</b>	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.

, , , , , , , , , , , , , , , , , , ,	3, where upplicable, completes an extended product 3D3.
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	onal workers
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
PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities	
ERC5-Use at industrial site leading to inclusion into/onto article	
ERC8c-Widespread use leading to inclusion 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	
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.	
Relevant limit values of ingredients 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	
I	WB01 English.pdf

CB337 Series[C][3]-SDS\_UK-English-30.pdf

CB337 Series[M][3]-SDS\_UK-English-27.pdf

CB337 Series[Y][3]-SDS\_UK-English-29.pdf



# SAFETY DATA SHEET

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

	-	
1.1. Product identifier		
Trade name or	CB337 Series[C][3]	
designation of the mixture		
Registration number	-	
Synonyms	None.	
Issue date	17-Jun-2015	
Version number	03	
Revision date	18-May-2016	
Supersedes date	04-Sep-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 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

Laber according to Regulatio	
Contains:	1,5-pentanediol, 2-pyrrolidone, Cyan 854, Magnesium nitrate hexahydrate, 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.	Note
Water	65-75	7732-18-5 231-791-2	-	-	
Classification:	-				
1,5-pentanediol	<10	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				
Cyan 854	< 5	375380-28-2 428-120-2	01-0000017445-69-XXXX	-	
Classification:	Eye Dam. 1;H318				
Magnesium nitrate hex	ahydrate < 5	10377-60-3 233-826-7	01-2119491164-38-XXXX	-	
Classification:	Eye Irrit. 2;H319				

### **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	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.	

### **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	- ····	
6.4. Reference to other sections	Not available.	

### **SECTION 7: Handling and 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	Not available.
procedures	

### Derived no-effect level (DNEL)

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
Magnesium nitrate hexahydrate (CAS 10377-60-3)	Consumers	Dermal	12.5 mg/kg bw/d	Systemic long term
		Inhalation	10.9 mg/m3	Systemic long term
		Oral	12.5 mg/kg bw/d	Systemic long term
	Workers	Dermal	20.8 mg/kg bw/d	Systemic long term
		Inhalation	36.7 mg/m3	Systemic long term
dicted no effect concentrations (PNEC	Cs)			
Components	Туре	Route	Value	Form
	Not applicable	Freshwater	0.5 mg/l	
2-pyrrolidone (CAS 616-45-5)	Not applicable	riconwater		
2-pyrrolidone (CAS 616-45-5)		Intermittant	0.5 mg/l	Releases
2-pyrrolidone (CAS 616-45-5)				Releases
2-pyrrolidone (CAS 616-45-5)		Intermittant	0.5 mg/l	Releases Freshwater
2-pyrrolidone (CAS 616-45-5)		Intermittant Marine water	0.5 mg/l 0.05 mg/l	
2-pyrrolidone (CAS 616-45-5)	Νοι αμμικασιε	Intermittant Marine water Sediment	0.5 mg/l 0.05 mg/l 0.4205 mg/kg	Freshwater
2-pyrrolidone (CAS 616-45-5) Magnesium nitrate hexahydrate (CAS 10377-60-3)	Not applicable	Intermittant Marine water Sediment Soil	0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg	
Magnesium nitrate hexahydrate (CAS		Intermittant Marine water Sediment Soil STP	0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg 10 mg/l	Freshwater
Magnesium nitrate hexahydrate (CAS		Intermittant Marine water Sediment Soil STP Freshwater	0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg 10 mg/l 0.45 mg/l	Freshwater Sewage Treatment Plant

Exposure guidelines	Exposure limits have not been established for this product.
8.2. Exposure controls	
Appropriate engineering controls	Use in a well ventilated area.
Individual protection measure	s, such as personal protective equipment
General information	Use personal protective equipment to minimize exposure to skin and eye.
Eye/face protection	Not available.
Skin protection	
- Hand protection	Not available.
- Other	Not available.
<b>Respiratory protection</b>	Not available.
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	6.2 - 6.8
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 200.0 °F (> 93.3 °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
CECTION 10. Ctability an	

### **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.

SECTION 11: Toxicological information			
General information	Not available.		
11.1. Information on toxicological effects			
Acute toxicity	Based on avail	able data, the classification criteria are no	t met.
Skin corrosion/irritation	Based on avail	able data, the classification criteria are no	t met.
Serious eye damage/eye irritation	Based on avail	able data, the classification criteria are no	t met.
Respiratory sensitization	Based on avail	able data, the classification criteria are no	t met.
Skin sensitization	Based on avail	able data, the classification criteria are no	t met.
Germ cell mutagenicity	Based on avail	able data, the classification criteria are no	t met.
Carcinogenicity	Based on avail	able data, the classification criteria are no	t met.
Reproductive toxicity	Based on avail	able data, the classification criteria are no	t met.
Specific target organ toxicity - single exposure	Based on avail	able data, the classification criteria are no	t met.
Specific target organ toxicity - repeated exposure	Based on avail	able data, the classification criteria are no	t met.
Aspiration hazard	Based on avail	able data, the classification criteria are no	t met.
Components	Species	Т	est Results
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	65	500 mg/kg
	Rat	6!	500 mg/kg
Mixture versus substance information	Not available.		
Other information	Complete tovi		
		city data are not available for this specific to on 2 for potential health effects and Section	
	Refer to Section		
SECTION 12: Ecological i	Refer to Section		
SECTION 12: Ecological i 12.1. Toxicity	Refer to Section	on 2 for potential health effects and Section	n 4 for first aid measures.
SECTION 12: Ecological i 12.1. Toxicity Product	Refer to Section		
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3]	Refer to Section	on 2 for potential health effects and Section	n 4 for first aid measures.
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic	Refer to Section	on 2 for potential health effects and Section	n 4 for first aid measures.
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute	Refer to Section	on 2 for potential health effects and Section	n 4 for first aid measures. Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute	Refer to Section	Species	n 4 for first aid measures. Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish	Refer to Section	Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components	Refer to Section	Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic	Refer to Section	Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and	Refer to Section	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea	Refer to Section	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient	Refer to Section Information	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential	Refer to Section Information	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)	Refer to Section information LC50 EC50 Not available. Not available.	Species         Fathead minnow (Pimephales promelas)         Species         Water flea (Daphnia pulex)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone	Refer to Section information LC50 EC50 Not available. Not available.	Species         Fathead minnow (Pimephales promelas)         Species         Water flea (Daphnia pulex)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results
SECTION 12: Ecological i 12.1. Toxicity Product CB337 Series[C][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone Bioconcentration factor (BCF)	Refer to Section information LC50 EC50 Not available. Not available. Not available. Not available.	Species         Fathead minnow (Pimephales promelas)         Species         Water flea (Daphnia pulex)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results

Not available.

12.6. Other adverse effects

### **SECTION 13: Disposal considerations**

13.1. Waste treatment metho	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.

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

**Further information** 

<ul> <li>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended</li> <li>Not listed.</li> <li>Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry <ul> <li>Not listed.</li> <li>Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA <ul> <li>Not listed.</li> </ul> </li> </ul></li></ul>
<ul> <li>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended <ul> <li>Not listed.</li> </ul> </li> <li>Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry <ul> <li>Not listed.</li> <li>Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA <ul> <li>Not listed.</li> </ul> </li> </ul></li></ul>
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Not listed. Authorizations
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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.

Directive 92/85/EEC: or are breastfeeding	n the safety and health of pregnant workers and workers who have recently given birth or
Not regulated.	
Other EU regulations	
Directive 96/82/EC (Se	veso II) on the control of major-accident hazards involving dangerous substances
Not regulated.	
Directive 98/24/EC on t agents at work	the protection of the health and safety of workers from the risks related to chemical
Not regulated.	
Directive 94/33/EC on t	the 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).
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	17-Jun-2015
<b>Revision information</b>	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.

, , , , , , , , , , , , , , , , , , ,	3, where upplicable, completes an extended product 3D3.
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	onal workers
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	
	io inclusion 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	
	is based on the individuel ingredients and their concentration within the mixture.
	ne 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	
I	WB01 English.pdf



# SAFETY DATA SHEET

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

	-
1.1. Product identifier	
Trade name or	CB337 Series[M][3]
designation of the mixture	
Registration number	-
Synonyms	None.
Issue date	17-Jun-2015
Version number	03
Revision date	18-May-2016
Supersedes date	04-Sep-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

	(),, -,
Contains:	1,5-pentanediol, 2-pyrrolidone, Magnesium nitrate hexahydrate, 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.	<b>REACH Registration No.</b>	Index No.	Note
Water	65-75	7732-18-5 231-791-2	-	-	
Classification:	-				
1,5-pentanediol	<10	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				
Magnesium nitrate hexal	nydrate < 5	10377-60-3 233-826-7	01-2119491164-38-XXXX	-	
Classification:	Eye Irrit. 2;H319				

### **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	Dry chemical, CO2, water spray or regular 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, 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 an	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 terr
		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
Magnesium nitrate hexahydrate (CAS 10377-60-3)	Consumers	Dermal	12.5 mg/kg bw/d	Systemic long term
		Inhalation	10.9 mg/m3	Systemic long term
		Oral	12.5 mg/kg bw/d	Systemic long term
	Morkora	Dermal	20.8 mg/kg bw/d	Systemic long term
	Workers	Dermai	20.0 mg/kg bw/u	Systemic long term
	WORKERS	Inhalation	36.7 mg/m3	Systemic long term
licted no effect concentrations (PNEC			5, 5 ,	, 0
licted no effect concentrations (PNEC Components			5, 5 ,	, 5
	Cs)	Inhalation	36.7 mg/m3	Systemic long term
Components	Cs) Type	Inhalation Route	36.7 mg/m3 Value	Systemic long term
Components	Cs) Type	Inhalation Route Freshwater	36.7 mg/m3 Value 0.5 mg/l	Systemic long term
Components	Cs) Type	Inhalation Route Freshwater Intermittant	36.7 mg/m3 Value 0.5 mg/l 0.5 mg/l	Systemic long term Form
Components	Cs) Type	Inhalation Route Freshwater Intermittant Marine water	36.7 mg/m3 Value 0.5 mg/l 0.5 mg/l 0.05 mg/l	Systemic long term Form Releases
Components	Cs) Type	Inhalation Route Freshwater Intermittant Marine water Sediment	36.7 mg/m3 Value 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg	Systemic long term Form Releases Freshwater
Components	Cs) Type	Inhalation Route Freshwater Intermittant Marine water Sediment Soil	36.7 mg/m3 Value 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg	Systemic long term Form Releases Freshwater
Components 2-pyrrolidone (CAS 616-45-5) Magnesium nitrate hexahydrate (CAS	<b>Cs)</b> <b>Type</b> Not applicable	Inhalation <b>Route</b> Freshwater Intermittant Marine water Sediment Soil STP	36.7 mg/m3 Value 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg 10 mg/l	Systemic long term Form Releases Freshwater
Components 2-pyrrolidone (CAS 616-45-5) Magnesium nitrate hexahydrate (CAS	<b>Cs)</b> <b>Type</b> Not applicable	Inhalation <b>Route</b> Freshwater Intermittant Marine water Sediment Soil STP Freshwater	36.7 mg/m3 <b>Value</b> 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg 0.0612 mg/kg 10 mg/l 0.45 mg/l	Systemic long term Form Releases Freshwater Sewage Treatment Plant

### Exposure guidelines 8.2. Exposure controls

Appropriate engineering controls	Use in a well ventilated area.
Individual protection measure	es, such as personal protective equipment
General information	Use personal protective equipment to minimize exposure to skin and eye.
Eye/face protection	Not available.
Skin protection	
- Hand protection	Not available.
- Other	Not available.
<b>Respiratory protection</b>	Not available.
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 phys	ical and chemical properties	
Appearance		
Physical state	Liquid.	
Color	Magenta	
Odor	Not available.	
Odor threshold	Not available.	
рН	6.2 - 6.8	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not determined	
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens 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.	
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

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

<b>11.1. Information on toxicolog</b>	gical effects		
Acute toxicity	Based on avai	lable data, the classification criteria are no	t met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		t met.
Serious eye damage/eye irritation	Based on avai	lable data, the classification criteria are no	t met.
Respiratory sensitization	Based on avai	lable data, the classification criteria are no	t met.
Skin sensitization	Based on avai	lable data, the classification criteria are no	t met.
Germ cell mutagenicity	Based on avai	lable data, the classification criteria are no	t met.
Carcinogenicity	Based on avai	lable data, the classification criteria are no	t met.
Reproductive toxicity	Based on avai	lable data, the classification criteria are no	t met.
Specific target organ toxicity - single exposure	Based on avai	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			
Oral			
LD50	Guinea pig	6	500 mg/kg
	Rat	6	500 mg/kg
Mixture versus substance information	Not available.		
Other information		city data are not available for this specific on 2 for potential health effects and Sectio	
SECTION 12: Ecological	information		
12.1. Toxicity			
Product		Species	Test Results
CB337 Series[M][3]			
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
12.2. Persistence and degradability	Not available.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone		-0.85	

Bioconcentration factor (BCF)Not available.12.4. Mobility in soilNot available.12.5. Results of PBTNot a PBT or vPvB substance or mixture.

and vPvB assessment

**12.6. Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Residual waste Contaminated packaging EU waste code Disposal methods/information Not available. Not available. Not available. Do not allow this to Local, State, F

Not available. 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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

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. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not regulated. Directive 94/33/EC on the protection of young people at work Not regulated. All chemical substances in this HP product have been notified or are exempt from notification under Other regulations 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 See attached SUMI or GEIS document, if applicable. assessment

### **SECTION 16: Other information**

References Information on evaluation method leading to the classification of mixture	Not available. Not available.
Issue date	17-Jun-2015
<b>Revision information</b>	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.

, , , , , , , , , , , , , , , , , , ,	3, where upplicable, completes an extended product 3D3.
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	onal workers
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	
	io inclusion 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	
	is based on the individuel ingredients and their concentration within the mixture.
	ne 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	
I	WB01 English.pdf



# SAFETY DATA SHEET

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

	-
1.1. Product identifier	
Trade name or	CB337 Series[Y][3]
designation of the mixture	
Registration number	-
Synonyms	None.
Issue date	17-Jun-2015
Version number	03
Revision date	18-May-2016
Supersedes date	04-Sep-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 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

Contains:	1,5-pentanediol, 2-pyrrolidone, Magnesium nitrate hexahydrate, 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.	<b>REACH Registration No.</b>	Index No.	Note
Water	65-75	7732-18-5 231-791-2	-	-	
Classification:	-				
1,5-pentanediol	<10	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				
Magnesium nitrate hexal	nydrate < 5	10377-60-3 233-826-7	01-2119491164-38-XXXX	-	
Classification:	Eye Irrit. 2;H319				

### **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	Dry chemical, CO2, water spray or regular 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, 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 an	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 term
		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 term
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
Magnesium nitrate hexahydrate (0 10377-60-3)	CAS Consumers	Dermal	12.5 mg/kg bw/d	Systemic long term
		Inhalation	10.9 mg/m3	Systemic long term
		Oral	12.5 mg/kg bw/d	Systemic long term
	Workers	Dermal	20.8 mg/kg bw/d	Systemic long term
		Inhalation	36.7 mg/m3	Systemic long term
Predicted no effect concentration	s (PNECs)			
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
Magnesium nitrate hexahydrate (( 10377-60-3)	CAS Not applicable	Freshwater	0.45 mg/l	
		Intermittant	4.5 mg/l	Releases
		Marine water	0.045 mg/l	
		STP	18 mg/l	Sewage Treatment Plant
Exposure guidelines No	one established.			

### 8.2. Exposure controls

Appropriate engineering controls	Use in a well ventilated area.	
Individual protection measure	es, such as personal protective equipment	
General information	Use personal protective equipment to minimize exposure to skin and eye.	
Eye/face protection	Not available.	
Skin protection		
- Hand protection	Not available.	
- Other	Not available.	
<b>Respiratory protection</b>	Not available.	
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 phys	ical and chemical properties	
Appearance		
Physical state	Liquid.	
Color	Yellow	
Odor	Not available.	
Odor threshold	Not available.	
рН	6.2 - 6.8	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not determined	
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens 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.	
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

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

11.1. Information on toxicological effects				
Acute toxicity	Based on avail	lable data, the classification criteria are no	t met.	
Skin corrosion/irritation	Based on avail	lable data, the classification criteria are no	t met.	
Serious eye damage/eye irritation	Based on avail	lable data, the classification criteria are no	t met.	
Respiratory sensitization	Based on avail	lable data, the classification criteria are no	t met.	
Skin sensitization	Based on avail	lable data, the classification criteria are no	t met.	
Germ cell mutagenicity	Based on avail	lable data, the classification criteria are no	t met.	
Carcinogenicity	Based on avail	lable data, the classification criteria are no	t met.	
Reproductive toxicity	Based on avail	lable data, the classification criteria are no	t met.	
Specific target organ toxicity - single exposure	Based on avail	lable data, the classification criteria are no	t met.	
Specific target organ toxicity - repeated exposure	Based on avail	lable data, the classification criteria are no	t met.	
Aspiration hazard	Based on avail	lable data, the classification criteria are no	t 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	
Mixture versus substance information	Not available.			
Other information	Complete toxic	city data are not available for this specific i	formulation	
	Refer to Section	on 2 for potential health effects and Sectio		
SECTION 12: Ecological		on 2 for potential health effects and Sectio		
SECTION 12: Ecological 12.1. Toxicity		on 2 for potential health effects and Sectio		
-		on 2 for potential health effects and Sectio		
12.1. Toxicity		on 2 for potential health effects and Sectio	n 4 for first aid measures.	
12.1. Toxicity Product		on 2 for potential health effects and Sectio	n 4 for first aid measures.	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute	information	on 2 for potential health effects and Sectio	n 4 for first aid measures. Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish		Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components	information	on 2 for potential health effects and Sectio	n 4 for first aid measures. Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5)	information	Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic	information	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5)	information	Species Fathead minnow (Pimephales promelas)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic	information	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and	information LC50 EC50	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)	information LC50 EC50 Not available.	Species         Fathead minnow (Pimephales promelas)         Species         Water flea (Daphnia pulex)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone	information LC50 EC50 Not available. Not available.	Species Fathead minnow (Pimephales promelas) Species	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	
12.1. Toxicity Product CB337 Series[Y][3] Aquatic Acute Fish Components 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea 12.2. Persistence and degradability 12.3. Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)	information LC50 EC50 Not available. Not available.	Species         Fathead minnow (Pimephales promelas)         Species         Water flea (Daphnia pulex)	n 4 for first aid measures. Test Results < 400 mg/l, 96 hours Test Results	

**12.5. Results of PBT** Not a PBT or vPvB substance or mixture. and vPvB

### **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

12.6. Other adverse effects

assessment

Not available.

Residual waste Contaminated packaging EU waste code Disposal methods/information Not available. Not available. Not available. Do not allow this to Local, State, F

Not available. 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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

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. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not regulated. Directive 94/33/EC on the protection of young people at work Not regulated. All chemical substances in this HP product have been notified or are exempt from notification under Other regulations 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 See attached SUMI or GEIS document, if applicable. assessment

### **SECTION 16: Other information**

References Information on evaluation method leading to the classification of mixture	Not available. Not available.
Issue date	17-Jun-2015
<b>Revision information</b>	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.

Operational conditions	s), where applicable, completes an extended product 3D3.			
	Up to 9 hours por day			
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 ventilation				
Do no eat, drink or smoke when				
Wash contaminated clothing bef				
Store at room temperature.				
Environmental measures				
Do not allow this material to dra	in into cowors/water supplies			
	ding to Local, State, Federal and Provincial Environmental Regulations.			
-	vith appropriately licenced waste contractor.			
· · ·	th appropriately incenced waste contractor.			
Use descriptors				
IS-Use at industrial sites				
PW-Widespread use by profession				
SU7-Printing and reproduction m				
PC18-Inks and Toners				
PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions				
r NOC2-Chemical production of r	ennery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions			
PROC3- Manufacture or formula condition	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			
	or mixture (charging and discharging) at dedicated facilities			
ERC5-Use at industrial site leadir				
	to inclusion 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				
	is based on the individuel ingredients and their concentration within the mixture.			
	ne 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				
	WB01_English.pd			