

## 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	L0R11Series
Registration number	-
Synonyms	None.
Issue date	12-May-2016
Version number	01
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

Eaber according to Regulation	
Contains:	2-pyrrolidone, 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 and 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.
2.3. Other hazards	Complete toxicity data are not available for this specific formulation.
	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.
	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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

#### 3.2. Mixtures

General information					
Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Water	70-85	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				
Composition comments	This ink supply co	ntains an aqueous i	nk formulation.		
SECTION 4: First aid mea	asures				
General information	Not available.				
4.1. Description of first aid me	asures				
Inhalation	Move to fresh air.	If symptoms persis	t, get medical attention.		
Skin contact	Wash affected are develops or persis		mild soap and water. Get medie	cal attention if in	ritation
Eye contact			ith large amounts of clean, war removed. If irritation persists g		
Ingestion	If ingestion of a la	arge amount does o	ccur, 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, CO	2, water spray or re	gular foam.		
Unsuitable extinguishing media	None known.				

# Specific methods None established. SECTION 6: Accidental release measures

Not available.

Not available.

Not available.

5.2. Special hazards arising

5.3. Advice for firefighters Special protective

Special fire fighting

from the substance or

equipment for firefighters

procedures

mixture

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.

SECTION 7: Handling and 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	

**7.2. Conditions for safe** Keep out of the reach of children. Keep away from excessive heat or cold. **storage, including any** 

Not available.

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

8.1. Control parameters

7.3. Specific end use(s)

incompatibilities

Occupational exposure limitsNo exposure limits noted for ingredient(s).Biological limit valuesNo biological exposure limits noted for the ingredient(s).Recommended monitoring<br/>proceduresNot available.

#### 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 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 concentrat	ions (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	stablished 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 equipme	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.			
Hygiene measures	Handle in accordance with good	industrial hygiene	and safety practice.	

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

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

Not available.

Appearance Physical state	Not available.	
Color	Yellow	
Odor	Not available.	
Odor threshold	Not available.	
Material name: L0R11Series		

**Environmental exposure** 

controls

рH	9 - 9.6
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information VOC (Weight %)	205 g/l

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

10.1. Reactivity 10.2. Chemical stability	Not available. 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

Not available.

#### 11.1. Information on toxicological effects

**General information** 

Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. 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.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

Components	Species		Test Results
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig		6500 mg/kg
	Rat		6500 mg/kg
Mixture versus substance information	Not available.		
Other information		city data are not available for this spon 2 for potential health effects and	
SECTION 12: Ecological in	nformation		
Aquatic toxicity	No information	n available.	
12.1. Toxicity			
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 soil	Not available.		
12.5. Results of PBT and vPvB assessment	Not a PBT or v	PvB substance or mixture.	
12.6. Other adverse effects	Not available.		
SECTION 13: Disposal co	nsideration	S	
13.1. Waste treatment method	s		
Residual waste	Not available.		
Contaminated packaging	Not available.		
EU waste code	Not available.		
Disposal methods/information		his material to drain into sewers/wa ste material according to Local, Stat	ater supplies. te, Federal, and Provincial Environmental
	HP original ink		ng program enables simple, convenient recycling or re information and to determine if this service is

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.

Not regulatear	
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	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Issue date	12-May-2016
<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 abbreviatio	ns Not available.

### Safe Use of Mixture Information (SUMI)

## Water Based Ink: WB01 \*English\*

#### Disclaimer

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

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

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Operational conditions		
Maximum duration	Up to 8 hours per day	
Frequency of exposure	< 240 days per year	
Process conditions	Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions	
	followed.	
Risk management measures		
Conditions and measures	Wear safety glasses with side shields (or goggles), if splashing is possible.	
related to Personal Protection		
	Wear appropriate chemical resistent gloves: see section 8 of the SDS.	
Equipment, hygiene and	Wear appropriate chemical resistent clothing.	
health evaluation	In case of inadequate ventilation wear respiratory protection.	
	Eye wash fountain and emergency showers are recommended.	
	Avoid breathing mist/vapours.	
	Avoid contact with skin, eyes and clothing.	
	Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.	
Good practice advice		
Use personal protective equipme	ent as required.	
Wash hands before breaks and a	after work.	
Keep good industrial hygiene and	d safety practice.	
Use only with adequate ventilati		
Do no eat, drink or smoke when		
Wash contaminated clothing be		
Store at room temperature.		
Environmental measures		
	in intercourse/unitercourselies	
Do not allow this material to dra		
-	ding to Local, State, Federal and Provincial Environmental Regulations.	
	ith appropriately licenced waste contractor.	
Use descriptors		
IS-Use at industrial sites		
PW-Widespread use by profession	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		
	o 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.		
	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		
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