

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	C4944Series
Registration number	-
Synonyms	None.
Issue date	01-Jul-2013
Version number	04
Revision date	19-May-2016
Supersedes date	10-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:	2-pyrrolidone, Tetraethylene glycol, 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	Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	80-90	7732-18-5 231-791-2	-	-	
Classification:	-				
2-pyrrolidone	<7.5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
Tetraethylene glycol	<7.5	112-60-7 203-989-9	01-2119971572-32-XXXX	-	
Classification:	-				

Composition comments

This ink supply contains an aqueous ink formulation.

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid me	asures
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
4.2. Most important symptoms and effects, both acute and delayed	Not available.
4.3. Indication of any immediate medical attention and special treatment	Not available.

needed

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, protective equipment and emergency procedures

For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Not available.

6.2. Environmental precautions	Do not let p	roduct enter drains.	Do not flush into s	urface water or san	tary sewer system.
6.3. Methods and material for containment and cleaning up		lled material, where t eous earth, commerc			rbent such as dry clay, san
6.4. Reference to other sections	Not availabl	•	liai soldents, of re	cover using pumps.	
	l atovo no				
SECTION 7: Handling and 7.1. Precautions for safe	-	ct with skin, eyes and	d clothing		
handling			-		
7.2. Conditions for safe storage, including any incompatibilities	Keep out of	the reach of children	. Keep away from	excessive heat or c	old.
7.3. Specific end use(s)	Not availabl	e.			
SECTION 8: Exposure cor	ntrols/per	sonal protection	n		
8.1. Control parameters					
Occupational exposure limits	No exposure	e limits noted for ingr	edient(s).		
Biological limit values	No biologica	l exposure limits not	ed for the ingredie	ent(s).	
Recommended monitoring procedures	Not availabl	e.			
Derived no-effect level (DNEL)					
Components		Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)		Consumers	Dermal Dermal Inhalation Oral Oral	6 mg/kg bw/d 167 mg/kg bw/d 17.1 mg/m3 5.2 mg/kg bw/d 33.3 mg/kg bw/d	Systemic long term Systemic acute short terr Systemic long term Systemic long term Systemic acute short terr
Predicted no effect concentrati	ions (DNFCs	Workers	Dermal Dermal Inhalation	277 mg/kg bw/d 10 mg/kg bw/d 57.8 mg/m3	Systemic acute short terr Systemic long term Systemic long term
Components		Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)		Not applicable	Freshwater Intermittant Marine water Sediment	0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg	Releases Freshwater
			Soil	0.0612 mg/kg	
			STP	10 mg/l	Sewage Treatment Plant
Exposure guidelines	Exposure lin	nits have not been es	stablished for this	product.	
8.2. Exposure controls					
Appropriate engineering controls		ll ventilated area. quate ventilation.			
Individual protection measures		=			
General information	-	al protective equipme	-	posure to skin and e	ye.
Eye/face protection Skin protection	Not required	d under intended use			
- Hand protection	Not availabl	e.			
- Other	Protected gl	oves not required un	der intended use.		
Respiratory protection		er than intended use		ent of a large spill),	goggles and respirators ma
Thermal hazards	Not availabl				
Hygiene measures		ccordance with good	industrial hvaiene	and safety practice.	
Environmental exposure	Not availabl	-	, <u>5</u> - 10	, , , , , , , , , , , , , , , , , , , ,	

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Not available.
Color	Light Cyan
Odor	Not available.
Odor threshold	Not available.
рН	7.8 - 8.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	>= 2 cp
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
VOC (Weight %)	< 63 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 11.1. Information on toxicolog	Not available. 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.
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
Tetraethylene glycol (CAS 112-60-	-7)		
Acute			
Dermal			
LD50	Rabbit		22570 mg/kg
Oral			
LD50	Rat		29 g/kg
Mixture versus substance information	Not available.		
Other information	Complete toxic	city data are not available for this	specific formulation
SECTION 12: Ecological	information		
Aquatic toxicity	This product h	as not been tested for ecological	effects.
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	Not a PBT or v	PvB substance or mixture.	
assessment			
assessment 12.6. Other adverse effects	Not available.		

13.1. Waste treatment methods

13.1. Waste treatment method	Jus
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.

SECTION 15: Regulatory information

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

EU regulations

Further information

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.

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.

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).
Not available.
See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

Deferences	
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Issue date	01-Jul-2013
Revision information	None.
Training information	Not available.
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.
Manufacturer information	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020
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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds
List of abbreviations	Not available.

Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *English*

Disclaimer

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

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

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Operational conditions			
Maximum duration	Up to 8 hours per day		
Frequency of exposure	< 240 days per year		
Process conditions	Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions		
	followed.		
Risk management measures			
Conditions and measures	Wear safety glasses with side shields (or goggles), if splashing is possible.		
related to Personal Protection			
	Wear appropriate chemical resistent gloves: see section 8 of the SDS.		
Equipment, hygiene and	Wear appropriate chemical resistent clothing.		
health evaluation	In case of inadequate ventilation wear respiratory protection.		
	Eye wash fountain and emergency showers are recommended.		
	Avoid breathing mist/vapours.		
	Avoid contact with skin, eyes and clothing.		
	Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.		
Good practice advice			
Use personal protective equipme	ent as required.		
Wash hands before breaks and a	after work.		
Keep good industrial hygiene and	d safety practice.		
Use only with adequate ventilati			
Do no eat, drink or smoke when			
Wash contaminated clothing be			
Store at room temperature.			
Environmental measures			
	in intercourse/unitercourselies		
Do not allow this material to dra			
-	ding to Local, State, Federal and Provincial Environmental Regulations.		
	ith appropriately licenced waste contractor.		
Use descriptors			
IS-Use at industrial sites			
PW-Widespread use by profession	onal workers		
SU7-Printing and reproduction n	nedia		
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			
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 to inclusion into/onto article ERC8c-Widespread use leading to inclusion into/onto article (indoor)			
Additional information on prod			
In section 2 of the SDS as well as on the label, the classification of the mixture is provided.			
Most of the water based inks are "not classified".			
The classification of the mixture is based on the individuel ingredients and their concentration within the mixture.			
All ingredients contributing to the classification are stated in Section 3 of the SDS.			
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		