

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	C4953Series
Registration number	-
Synonyms	None.
Issue date	27-Jun-2013
Version number	04
Revision date	20-May-2016
Supersedes date	10-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:	2-pyrrolidone, Aliphatic diol, Substituted naphthalenesulfonate salt # 7, 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 i	information
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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	80-90	7732-18-5 231-791-2	-	-	
Classification: -					
Aliphatic diol	<10	Proprietary	01-2119449814-31-XXXX	_	
Classification: -					
2-pyrrolidone	<5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification: Eye	e Irrit. 2;H319				
Substituted naphthalenesulfo # 7	onate salt <2.5	Proprietary -	-	-	
Classification: -					
mposition comments		contains an aqueous i	nk formulation.		
CTION 4: First aid me					
neral information	Not available.				
. Description of first aid m Inhalation		air. If aumatama par	sist, get medical attention.		
Skin contact		reas thoroughly with	mild soap and water. Get media	cal attention if irr	itation
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for least 15 minutes or until particles are removed. If irritation persists get medical attention.				
Ingestion	If ingestion of a	large amount does o	ccur, seek medical attention.		
2. Most important nptoms and effects, both ute and delaved	Not available.				

acute and delayed	
4.3. Indication of any immediate medical attention	Not available.
and special treatment	
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, 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.

storage, including any

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.
Darived no-offect level (DNEL)	

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 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.	
8.2. Exposure controls				
Appropriate engineering controls	Use in a well ventilated area. Provide adequate ventilation.			
Individual protection measures	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	Protected gloves not required un	der intended use.		
Respiratory protection	Not available.			
Thermal hazards	Not available.			
Hygiene measures	Handle in accordance with good	industrial hygiene	and safety practice.	

Material name: C4953Series

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	7 - 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 ex	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	Not available.
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
VOC (Weight %)	< 142 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		
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		lable data, the classification criteria are n		
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 avail	lable data, the classification criteria are n	ot met.	
Components	Species		Test Results	
2-pyrrolidone (CAS 616-45-5)				
Acute Oral				
LD50	Guinea pig		6500 mg/kg	
	Rat		6500 mg/kg	
Aliphatic diol (CAS Proprietary)			5, 5	
Acute				
Dermal				
LD50	Rabbit		> 10000 mg/kg	
Oral				
LD50	Rat		3730 mg/kg	
Other				
LD50	Mouse		1738 mg/kg	
Mixture versus substance	Not available.		1,00 mg/ng	
information				
Other information	Complete toxic	city data are not available for this specific	c formulation	
SECTION 12: Ecological	information			
12.1. Toxicity				
Product		Species	Test Results	
C4953Series				
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.			
12.3. Bioaccumulative potential	Not available.			
Partition coefficient				
n-octanol/water (log Kow)				
2-pyrrolidone		-0.85		
Aliphatic diol	N	-0.106		
Bioconcentration factor (BCF)				
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.			
		c		
SECTION 13: Disposal co 13.1. Waste treatment method		5		
Residual waste	Not available.			
Contaminated packaging	Not available.			
EU waste code	Not available.			
				SDS UK
Material name: C4953Series				505 UK

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.

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
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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 Not regulated.	the protection of young people at work
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	27-Jun-2013
Revision information	None.
Training information	Not available.
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.
Manufacturer information	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Explanation of abbreviations

A	CGIH	American Conference of Governmental Industrial Hygienists	
C	AS	Chemical Abstracts Service	
C	ERCLA	Comprehensive Environmental Response Compensation and Liability Act	
C	FR	Code of Federal Regulations	
C	oc	Cleveland Open Cup	
D	от	Department of Transportation	
EF	PCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)	
IA	ARC	International Agency for Research on Cancer	
N	IOSH	National Institute for Occupational Safety and Health	
N.	ТР	National Toxicology Program	
0	SHA	Occupational Safety and Health Administration	
PI	EL	Permissible Exposure Limit	
R	CRA	Resource Conservation and Recovery Act	
R	EC	Recommended	
R	EL	Recommended Exposure Limit	
S	ARA	Superfund Amendments and Reauthorization Act of 1986	
S	TEL	Short-Term Exposure Limit	
т	CLP	Toxicity Characteristics Leaching Procedure	
TI	LV	Threshold Limit Value	
TS	SCA	Toxic Substances Control Act	
V	OC	Volatile Organic Compounds	
List of abl	breviations N	Not available.	

Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *English*

Disclaimer

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

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

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