

# 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	C9451Series
Registration number	_
Synonyms	None.
Issue date	25-Jun-2013
Version number	04
Revision date	23-Jul-2016
Supersedes date	08-Sep-2015
•	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, Alkyldiol, Carbon black, Diethylene 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

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Water	80-90	7732-18-5 231-791-2	-	-	
Classification: -					
Alkyldiol	<7.5	Proprietary	01-2119987321-35-XXXX	-	
<b>Classification:</b>	ye Irrit. 2;H319				
2-pyrrolidone	<5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
<b>Classification:</b>	ye Irrit. 2;H319				
Diethylene glycol	<5	111-46-6 203-872-2	-	603-140-00-6	
Classification: A	cute Tox. 4;H302, ST(	DT RE 2;H373			
Carbon black	<1	1333-86-4 215-609-9	01-2119384822-32-XXXX	-	
Classification: -					
neral information . Description of first aid n	Not available. <b>neasures</b>				
Inhalation Skin contact	Move to fresh air. Wash affected are		t, get medical attention. mild soap and water. If irritation	on persists get me	dical
Eye contact			ith large amounts of clean, wa removed. If irritation persists		
Ingestion	If material is inge	sted, immediately c	ontact a physician or poison co	ntrol center.	
. Most important nptoms and effects, both ite and delayed	Not available.				
<ul> <li>Indication of any mediate medical attention d special treatment eded</li> </ul>	Not available. n				
<b>CTION 5: Firefightin</b>	g measures				
neral fire hazards	Not available.				
. Extinguishing media Suitable extinguishing media	CO2, water, dry c	hemical, or foam			
Unsuitable extinguishing media	g None known.				
. Special hazards arising m the substance or kture	Not available.				
Advice for firefighters Special protective equipment for firefighters	Not available.				

firefighters

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, prot	ective 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	Not available.
6.4. Reference to other sections	Not available.
SECTION 7: Handling and	l 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**

UK. EH40 Workplace Exp Components	osure Limits (WELs) Type	Value	
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3.5 mg/m3	
Diethylene glycol (CAS 111-46-6)	TWA	101 mg/m3	
,		23 ppm	
ological limit values	No biological exposure limits noted	for the ingredient(s).	
commended 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 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
Alkyldiol (CAS Proprietary)	Worker	Inhalation	123 mg/m3	Systemic long term
Carbon black (CAS 1333-86-4)	Consumers	Inhalation	1.75 mg/m3	Local long term
		Inhalation	0.06 mg/m3	Systemic long term
	Workers	Inhalation	2 mg/m3	Local long term
		Inhalation	1 mg/m3	Systemic long term
Diethylene glycol (CAS 111-46-6)	Consumers	Dermal	53 mg/kg	Systemic long term
		Inhalation	12 mg/m3	Local long term
	Workers	Dermal	106 mg/kg	Systemic long term
		Inhalation	60 mg/m3	Local long term

## Predicted no effect concentrations (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
Carbon black (CAS 1333-86-4	ŀ)	Not applicable	Freshwater	5 mg/l	
			Marine water	5 mg/l	
Diethylene glycol (CAS 111-4	6-6)	Not applicable	Freshwater	10 mg/l	
			Intermittant	10 mg/l	Releases
			Marine water	1 mg/l	
			Sediment	20.9 mg/kg	Freshwater
			Soil	1.53 mg/kg	
			STP	199.5 mg/l	Sewage Treatment Plant
Exposure guidelines	Exposure lim	its have not been es	tablished for this	product.	
8.2. Exposure controls					
Appropriate engineering controls	Use in a well	ventilated area.			
Individual protection measure	es, such as pe	rsonal protective	equipment		
General information	Use persona	protective equipme	nt to minimize exp	posure to skin and	eye.
Eye/face protection	Not available				
Skin protection					
- Hand protection	Not available	<u>.</u>			
- Other	Not available	<u>.</u>			
<b>Respiratory protection</b>	Not available	<u>.</u>			
Thermal hazards	Not available				
Hygiene measures	Handle in ac	cordance with good	industrial hygiene	and safety practic	e.
Environmental exposure controls	Not available				

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

## 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Not available.
Color	Light Grey
Odor	Not available.
Odor threshold	Not available.
рН	9.4
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 determined		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Explosive properties	Not available.		
Oxidizing properties	Not determined		
9.2. Other information			
VOC (Weight %)	< 63.7 g/l		
SECTION 10: Stability an	d 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 agent	S.	
10.6. Hazardous decomposition products	Upon decomposition, this product may yield gaseou dioxide and/or low molecular weight hydrocarbons.		
SECTION 11: Toxicologic	al information		
General information	Not available.		
11.1. Information on toxicolog	ical effects		
Acute toxicity	Based on available data, the classification criteria a	re not met.	
Skin corrosion/irritation	Based on available data, the classification criteria a	re not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria a	re 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.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Carbon black (CAS 1333-	36-4)2B Possibly carcino	genic to humans.	
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 a	re not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.		
Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5) <b>Acute</b> <i>Oral</i>			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Carbon black (CAS 1333-86-4)		0000 mg/kg	
Acute			
Oral	<b>D</b> .	0000 //	
LD50	Rat	> 8000 mg/kg	
Diethylene glycol (CAS 111-46-6) Acute			
Dermal			
LD50	Rabbit	11890 mg/kg	
Oral			
LD50	Cat	3300 mg/kg	
	Dog	9000 mg/kg	
	<b>-</b> · · ·		

Guinea pig

8700 mg/kg

Components	Species	т	est Results
	Mouse	1	3.3 g/kg
	Rabbit	2	6.9 g/kg
	Rat	1	2565 mg/kg
Other			
LD50	Mouse	9	.6 g/kg
	Rabbit	2	000 mg/kg
	Rat		700 mg/kg
			.7 g/kg
Mixture versus substance Information	Not available.	,	
Other information	Complete toxic	ity data are not available for this specific	formulation
SECTION 12: Ecological	information		
L2.1. Toxicity			
Product		Species	Test Results
C9451Series		•	
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
Diethylene glycol (CAS 111-46-6)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours
L2.2. Persistence and legradability	Not available.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow)		0.05	
2-pyrrolidone		-0.85	
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.		
SECTION 13: Disposal co	onsideration	S	
L3.1. Waste treatment metho			
Residual waste	Not available.		
Contaminated packaging	Not available.		
EU waste code	Not available.		
Disposal		nis material to drain into sewers/water su	pplies.
nethods/information		te material according to Local, State, Fed	
	HP original ink	rtners (trademark) supplies recycling prog jet and LaserJet supplies. For more infor ur location, please visit http://www.hp.co	mation 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

Diethylene glycol (CAS 111-46-6)

### 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.

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.				
<b>15.2. Chemical safety</b> See attached SUMI or GEIS document, if applicable. <b>assessment</b>					
SECTION 16: Other info	rmation				
References	Not available.				
Information on evaluation method leading to the classification of mixture	Not available.				
Issue date	25-Jun-2013				

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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

None.

Not available.

#### **Explanation of abbreviations**

**Revision information** 

**Training information** 

Disclaimer

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 No	ot 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 bef	
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 m	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	
	WB01 English.pdf