

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	C9455Series
Registration number	-
Synonyms	None.
Issue date	25-Jun-2013
Version number	04
Revision date	22-Jul-2016
Supersedes date	08-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, Alkyldiol, Diethylene glycol, Glycerol, Pigment red, 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.	Note
Water	70-80	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				
Alkyldiol	<7.5	Proprietary	01-2119987321-35-XXXX	-	
Classification:	Eye Irrit. 2;H319				
Glycerol	<5	56-81-5 200-289-5	-	-	
Classification:	Eye Irrit. 2;H319				
Diethylene glycol	<2.5	111-46-6 203-872-2	-	603-140-00-6	
Classification:	Acute Tox. 4;H302, ST	OT RE 2;H373			
Pigment red	<2.5	Proprietary	01-2119456804-33-XXXX	-	
Classification:	-	-			
mposition comments	This ink supply co	ontains an aqueous	ink formulation.		
ECTION 4: First aid	l measures				
neral information	Not available.				
L. Description of first a	id measures				
Inhalation	Move to fresh air.	If symptoms persis	st, 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 least 15 minutes or until particles are removed. If irritation persists get medical attention.				
·	T C				

If material is ingested, immediately contact a physician or poison control center.

4.2. Most importantNot available.symptoms and effects, bothacute and delayed4.3. Indication of anyNot available.immediate medical attentionand special treatmentneededImage: Second Seco

Ingestion

SECTION 5: Firefighting measures

General fire hazards	Not available.
5.1. Extinguishing media Suitable extinguishing media	CO2, water, dry chemical, or 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 re	elease measures			
6.1. Personal precautions, prot For non-emergency personnel	tective equipment and emerge Wear appropriate personal prote			
For emergency responders	Not available.			
6.2. Environmental precautions	Do not let product enter drains.	Do not flush into	surface water or san	itary 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	d storage			
7.1. Precautions for safe handling	Avoid contact with skin, eyes and	d clothing.		
7.2. Conditions for safe storage, including any incompatibilities	Keep out of the reach of childrer	n. Keep away froi	m excessive heat or c	old.
7.3. Specific end use(s)	Not available.			
SECTION 8: Exposure co	ntrols/personal protection	on		
8.1. Control parameters				
Occupational exposure limits				
UK. EH40 Workplace Expose Components	sure Limits (WELs) Type		Value	Form
Diethylene glycol (CAS 111-46-6)	TWA		101 mg/m3	
-			23 ppm	M
Glycerol (CAS 56-81-5)	TWA		10 mg/m3	Mist.
Biological limit values Recommended monitoring procedures	No biological exposure limits not Not available.	ed for the ingred	ient(s).	
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 tern Systemic long term Systemic long term Systemic acute short tern
	Workers	Dermal Dermal	277 mg/kg bw/d 10 mg/kg bw/d	Systemic acute short tern Systemic long term

Inhalation

Inhalation

Inhalation

Inhalation

Dermal

Dermal

Route

Freshwater

Intermittant

Worker

Workers

Туре

Not applicable

Consumers

57.8 mg/m3

123 mg/m3

53 mg/kg

12 mg/m3

106 mg/kg

60 mg/m3

Value

0.5 mg/l

0.5 mg/l

2-pyrrolidone (CAS 616-45-5)

Components

Alkyldiol (CAS Proprietary)

Diethylene glycol (CAS 111-46-6)

Predicted no effect concentrations (PNECs)

Systemic long term

Systemic long term

Systemic long term

Systemic long term

Local long term

Local long term

Form

Releases

Components		Туре	Route	Value	Form
			Marine water	0.05 mg/l	
			Sediment	0.4205 mg/kg	Freshwater
			Soil	0.0612 mg/kg	
			STP	10 mg/l	Sewage Treatment Plant
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
kposure guidelines	Exposure	limits have not been es	tablished for this	product.	
2. Exposure controls					
ppropriate engineering ontrols	Use in a	well ventilated area.			
dividual protection measure	es, such as	personal protective	equipment		
General information	Use perse	onal protective equipme	nt to minimize exp	oosure to skin and	eye.
Eye/face protection	Not requi	red under intended use			
Skin protection					
- Hand protection	Not avail	able.			
- Other	Protected	l gloves not required un	der intended use.		
Respiratory protection	For use c be requir		(such as in the ev	ent of a large spill), goggles and respirators m
Thermal hazards	Not avail	able.			
ygiene measures	Handle ir	accordance with good	ndustrial hygiene	and safety practic	e.
nvironmental exposure ontrols	Not avail	able.			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance	
Physical state	Not available.
Color	Light Magenta
Odor	Not available.
Odor threshold	Not available.
рН	9.2
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 determined
Decomposition temperature	Not available.
Viscosity	Not available.

Explosive properties	Not available.		
Oxidizing properties	Not determined		
9.2. Other information VOC (Weight %)	< 183 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. fluorinated hydrocarbons		
SECTION 11: Toxicologic	al information		
General information	Not available.		
11.1. Information on toxicolog			
-			
Acute toxicity	Based on available data, the classification criteria ar		
Skin corrosion/irritation	Based on available data, the classification criteria ar		
Serious eye damage/eye irritation	Based on available data, the classification criteria ar	e not met.	
Respiratory sensitization	Based on available data, the classification criteria an	re not met.	
Skin sensitization	Based on available data, the classification criteria an	e not met.	
Germ cell mutagenicity	Based on available data, the classification criteria and	e 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	
Diethylene glycol (CAS 111-46-6)			
Acute			
Dermal			
LD50	Rabbit	11890 mg/kg	
Oral			
LD50	Cat	3300 mg/kg	
	Dog	9000 mg/kg	
	Guinea pig	8700 mg/kg	
	Mouse	13.3 g/kg	
	Rabbit	26.9 g/kg	
	Rat	12565 mg/kg	
	-		
Other			
<i>Other</i> LD50	Mouse	9.6 g/kg	
Other LD50	Mouse Rabbit	9.6 g/kg 2000 mg/kg	
	Mouse Rabbit Rat	9.6 g/kg 2000 mg/kg 7700 mg/kg	

Components	Species	т	est Results
		7	.7 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		
12.1. Toxicity			
Product		Species	Test Results
C9455Series			
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
Glycerol (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
12.2. Persistence and degradability	Not available.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient			
n-octanol/water (log Kow)		0.07	
2-pyrrolidone Glycerol		-0.85 -1.76	
Bioconcentration factor (BCF)	Not available.	-1.70	
12.4. Mobility in soil	Not available.		
12.4. Mobility in son 12.5. Results of PBT		/PvB substance or mixture.	
and vPvB assessment			
12.6. Other adverse effects	Not available.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

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	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	25-Jun-2013
Revision information	1. Product and Company Identification: Alternate Trade Names
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.

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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 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 "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	