

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	C9457Series
Registration number	-
Synonyms	None.
Issue date	04-Jul-2013
Version number	04
Revision date	23-Jul-2016
Supersedes date	05-Jun-2016
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

Laber according to Regulation	
Contains:	2-pyrrolidone, Alkyldiol, Diethylene glycol, Glycerol, Trade secret green colorant, 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

General information Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	70-80	7732-18-5 231-791-2	-	-	
Classification: -					
Diethylene glycol	<7.5	111-46-6 203-872-2	-	603-140-00-6	
Classification: Ac	cute Tox. 4;H302, ST(DT RE 2;H373			
2-pyrrolidone	<5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification: Ey	/e Irrit. 2;H319				
Alkyldiol	<5	Proprietary -	01-2119987321-35-XXXX	-	
Classification: Ey	ve Irrit. 2;H319				
Glycerol	<5	56-81-5 200-289-5	-	-	
Classification: Ey	ve Irrit. 2;H319				
Trade secret green colorant	<1	Proprietary	-	-	
Classification: -					
Composition comments	This ink supply co	ontains an aqueous	ink formulation.		
SECTION 4: First aid m	easures				
eneral information	Not available.				
1.1. Description of first aid m					
Inhalation Skin contact			t, get medical attention. mild soap and water. If irritation	on persists get me	dical
Eye contact	Do not rub eyes.		vith large amounts of clean, wa removed. If irritation persists		
Ingestion	If material is inge	sted, immediately c	ontact a physician or poison co	ontrol center.	
4.2. Most important symptoms and effects, both acute and delayed	Not available.				
4.3. Indication of any mmediate medical attention and special treatment needed	Not available.				
SECTION 5: Firefighting	g measures				
General fire hazards	Not available.				
5.1. Extinguishing media Suitable extinguishing media	CO2, water, dry c	hemical, or foam			
Unsuitable extinguishing	None known.				

Not available.

5.3. Advice for firefighters Special protective equipment for	Not available.			
firefighters Special fire fighting	Not available.			
procedures				
Specific methods	None established.			
SECTION 6: Accidental re	elease measures			
6.1. Personal precautions, prot For non-emergency	Exective equipment and emerg Wear appropriate personal prot		5	
personnel 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 a	nd clothing.		
7.2. Conditions for safe storage, including any incompatibilities	Keep out of the reach of childre	en. Keep away fror	n excessive heat or c	old.
7.3. Specific end use(s)	Not available.			
SECTION 8: Exposure co	ntrols/personal protecti	ion		
8.1. Control parameters				
Occupational exposure limits				
UK. EH40 Workplace Expos				_
Components	Туре		Value	Form
Diethylene glycol (CAS 111-46-6)	TWA		101 mg/m3	
Glycerol (CAS 56-81-5)	TWA		23 ppm 10 mg/m3	Mist.
Biological limit values	No biological exposure limits no	oted for the ingred	•	
Recommended monitoring procedures	Not available.	-		
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 term Systemic long term Systemic long term Systemic acute short term
	Workers	Dermal Dermal Inhalation	277 mg/kg bw/d 10 mg/kg bw/d 57.8 mg/m3	Systemic acute short term Systemic long term Systemic long term

				000.144
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater Intermittant	0.5 mg/l 0.5 mg/l	Releases
Components	Туре	Route	Value	Form
Predicted no effect concentrations (PN	ECs)			
		Inhalation	60 mg/m3	Local long term
	Workers	Dermal	106 mg/kg	Systemic long term
		Inhalation	12 mg/m3	Local long term
Diethylene glycol (CAS 111-46-6)	Consumers	Dermal	53 mg/kg	Systemic long term
Alkyldiol (CAS Proprietary)	Worker	Inhalation	123 mg/m3	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
			- 5, 5 - 7 -	-, J

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 111-46	-6) Not applical	ble 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
posure guidelines	Exposure limits have not been established for this product.			
2. Exposure controls				
propriate engineering ntrols	Use in a well ventilated area.			
dividual protection measure	s, such as personal prote	ective equipment		
General information	Use personal protective ed	quipment to minimize ex	posure to skin and	eye.
Eye/face protection	Not available.			
Skin protection				
- Hand protection	Not available.			
- Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
giene measures	Handle in accordance with	n good industrial hygiene	and safety practice	е.
vironmental exposure ntrols	Not available.			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Not available.
Color	Green
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	> 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.

SECTION 10: Stability and reactivity

SECTION 11: Toxicological 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	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

General information

azard	Based on available data, the classification criteria are not met.
azard	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			
LD50	Mouse	9.6 g/kg	
	Rabbit	2000 mg/kg	
	Rat	7700 mg/kg	
		7.7 g/kg	

Not available.

Complete toxicity data are not available for this specific formulation

SECTION 12: Ecological	information		
12.1. Toxicity			
Product		Species	Test Results
C9457Series			
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) 2-pyrrolidone Glycerol		-0.85 -1.76	
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	vPvB substance or mixture.	
12.6. Other adverse effects	Not available.		

SECTION 13: Disposal considerations

13.1. Waste treatment meth	ods
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.

ΙΑΤΑ

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

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.		
15.2. Chemical safety assessment	See attached SUMI or GEIS document, if applicable.		
SECTION 16: Other info	rmation		
References	Not available.		
Information on evaluation method leading to the classification of mixture	Not available.		
Issue date	04-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

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	lot 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 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 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	