

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

C9458Series

designation of the mixture

**Registration number** 

**Synonyms** None. **Issue date** 04-Jul-2013

Version number 05

**Revision date** 27-Jul-2016 Supersedes date 26-Jul-2016

1.2. Relevant identified uses of 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, Trade secret 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

Material name: C9458Series SDS UK 1/8

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**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	75-85	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	<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, STO	OT RE 2;H373			
Trade secret colorant	<2.5	Proprietary	-	-	
Classification:	-	-			

# **SECTION 4: First aid measures**

**Composition comments** 

**General information** Not available.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

This ink supply contains an aqueous ink formulation.

attention.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

least 15 minutes or until particles are removed. If irritation persists get medical attention.

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

4.2. Most important symptoms and effects, both

acute and delayed

4.3. Indication of any

immediate medical attention and special treatment

needed

Not available.

Not available.

# **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

CO2, water, dry chemical, or foam

media

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising

from the substance or

mixture

Not available.

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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

Wear appropriate personal protective equipment.

personnel

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

Not available.

containment and cleaning up

6.4. Reference to other

Not available.

sections

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any

Keep out of the reach of children. Keep away from excessive heat or cold.

incompatibilities

7.3. Specific end use(s) Not available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational exposure limits**

# **UK. EH40 Workplace Exposure Limits (WELs)**

Components	Туре	Value	Form
Diethylene glycol (CAS 111-46-6)	TWA	101 mg/m3	
		23 ppm	
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Not available.

# **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
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

Components	Туре	Route	Value	Form	
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l		
		Intermittant	0.5 mg/l	Releases	

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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 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 limits have not been established for this product.

8.2. Exposure controls

**Appropriate engineering** 

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment to minimize exposure to skin and eye.

**Eye/face protection** Not available.

Skin protection

- Hand protection Not available. - Other Not available. Not available. **Respiratory protection** Not available. Thermal hazards

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**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 Blue

Odor Not available. **Odor threshold** Not available.

9.2 pН

Melting point/freezing point Not available. Initial boiling point and Not determined

boiling range

Flash point > 230.0 °F (> 110.0 °C) Setaflash Closed Cup

Not determined **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not determined

Flammability limit -Not available.

upper (%)

Not determined

Vapor pressure Solubility(ies)

Soluble in water Solubility (water) Not available. Solubility (other) Not available. **Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not determined **Decomposition temperature** Not available. **Viscosity** Not available. **Explosive properties** Not available.

Material name: C9458Series SDS UK Oxidizing properties Not determined

9.2. Other information

**VOC (Weight %)** 136.8 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. aldehydes, ketones, hydrogen fluoride,

fluorinated 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

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.

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

- siligie exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

**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** 

Dermai

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

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 LD50
 Mouse
 9.6 g/kg

 Rabbit
 2000 mg/kg

Rat 7700 mg/kg

7.7 g/kg

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information

Other information Complete toxicity data are not available for this specific formulation

**SECTION 12: Ecological information** 

**Aquatic toxicity** Not expected to be harmful to aquatic organisms.

Not available.

12.1. Toxicity

**Product Species Test Results** 

C9458Series

**Aquatic** 

Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

**Test Results** Components **Species** 

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** 

LC50 Fish Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours

Glycerol (CAS 56-81-5)

**Aquatic** 

Fish LC50 Rainbow trout, donaldson trout 51000 - 57000 mg/l, 96 hours

(Oncorhynchus mykiss)

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

**Partition coefficient** 

n-octanol/water (log Kow)

-0.85 2-pyrrolidone Glycerol -1.76

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available.

12.5. Results of PBT

Not a PBT or vPvB 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** Do not allow this material to drain into sewers/water supplies.

methods/information 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.

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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.

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# 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

See attached SUMI or GEIS document, if applicable.

assessment

#### **SECTION 16: Other information**

References
Information on evaluation

Not available. Not available.

method leading to the classification of mixture

Issue date
Revision information
Training information

04-Jul-2013 None. 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 proporties of the products as described or

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.

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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.

Material name: C9458Series SDS UK

# 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.

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 Equipment, hygiene and health evaluation

Wear appropriate chemical resistent gloves: see section 8 of the SDS.

Wear appropriate chemical resistent clothing.

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 equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do no eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.





### **Environmental measures**

Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Ensure collection and disposal with appropriately licenced waste contractor.

# Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

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

PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b-Transfer of substance or 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 product composition

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.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people.

Section 2 of the SDS states these ingredients where applicable.