

## SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9452Series

designation of the mixture

Registration number

Synonyms None.

**Issue date** 24-Jun-2013

Version number 03

**Revision date** 14-Sep-2015 **Supersedes date** 15-May-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesInkjet printingUses advised againstNone known.Company identificationHP Inc UK Limited

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Bracknell, United Kingdom RG12 1HN Telephone 44 (0) 879 013 0790

HP health effects line

(Toll-free within the US) 1-800-457-4209

(Direct) 1-760-710-0048 HP 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 Blue, Water

Hazard pictograms None.

Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label

information

None.

**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

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**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
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				
Diethylene glycol	<7.5	111-46-6 203-872-2	-	603-140-00-6	
Classification:	Acute Tox. 4;H302				
Alkyldiol	<5	Proprietary -	01-2119987321-35-XXXX	-	
Classification:	Skin Irrit. 2;H315, Eye	Irrit. 2;H319, STOT	SE 3;H335		
Glycerol	<5	56-81-5 200-289-5	-	-	
Classification:	Eye Irrit. 2;H319				
Pigment Blue	<2.5	Proprietary	01-2119458771-32-XXXX	-	
Classification:	-	-			

**Composition comments** This ink supply contains an aqueous ink formulation.

### **SECTION 4: First aid measures**

**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. Get medical attention if irritation

develops or persists.

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

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

**Ingestion** If ingestion of a large amount does occur, seek medical attention.

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

Dry chemical, CO2, water spray or regular foam.

media

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising

from the substance or

mixture

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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, 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 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 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.	
ological limit values	No hiological exposure limits noted for	the ingredient(s)		

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

**Recommended monitoring** 

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

**Predicted no effect** concentrations (PNECs) Not available.

**Exposure guidelines** 

Exposure limits have not been established for this product.

8.2. Exposure controls

Appropriate engineering

Use in a well ventilated area.

controls

#### 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

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

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

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controls

Not available.

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

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Not available.

Color Cyan

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

9.4 pН

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

boiling range

Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

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

Flammability limit - lower

(%)

Not available.

Flammability limit upper (%)

Not determined Vapor pressure

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information

1 - 1.1Specific gravity VOC (Weight %) < 180 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 Will not occur.

reactions

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon 10.6. Hazardous

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

irritation

**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.

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9389 Version No.: 03 Revision date: 14-Sep-2015 Print date: 14-Sep-2015 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 Based on available data, the classification criteria are not met. - single exposure

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 6500 mg/kg Guinea pig Rat 6500 mg/kg Diethylene glycol (CAS 111-46-6) **Acute** Dermal 11890 mg/kg LD50 Rabbit Oral LD50 Cat 3300 mg/kg Dog 9000 mg/kg 8700 mg/kg Guinea pig Mouse 13.3 g/kg Rabbit 26.9 g/kg Rat 12565 mg/kg Other LD50 9.6 g/kg Mouse Rabbit 2000 mg/kg Rat 7700 mg/kg 7.7 g/kg

Mixture versus substance

information

Not available.

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

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Product		Species	Test Results
C9452Series (CAS Mixture)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 750 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5	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

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9389 Version No.: 03 Revision date: 14-Sep-2015 Print date: 14-Sep-2015 12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85 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.

#### **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.

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Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

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

Other 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.

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).

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

**National regulations** 15.2. Chemical safety

assessment

Tssue date

Not available. Not available.

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

Not available. References Not available. Information on evaluation

method leading to the classification of mixture

24-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 quaranteeing 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.

Material name: C9452Series SDS UK

9389 Version No.: 03 Revision date: 14-Sep-2015 Print date: 14-Sep-2015 **Manufacturer information** HP

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.

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