

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9449Series

designation of the mixture

Registration numberN/ASynonymsNone.Issue date03-Jul-2013

Version number 01

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

Identified usesInkjet printingUses advised againstNone known.

Company identification Hewlett-Packard, Ltd.

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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 Directive 67/548/EEC or 1999/45/EC as amended

**Emergency overview** Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and

diarrhea. May cause sensitization of susceptible persons.

**Hazard summary** 

**Physical hazards**Not classified for physical hazards. **Health hazards**Not classified as a health hazard.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

## Label according to Directive 67/548/EEC or 1999/45/EC as amended

**Contains:** 2-pyrrolidone, Alkyldiol, Carbon black, Diethylene glycol, Triethanolamine, Water

R-phrase(s) Not available.
S-phrase(s) Not available.
Authorization number Not available.
Supplemental label Not applicable.

information

intormation

tot applicable.

**2.3. Other hazards** Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. This black ink is not classified according to EU Directive 1999/45/EC. 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 None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK,

NTP or OSHA.

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# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### **General information**

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water		<80	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				
2-pyrrolidone		<7.5	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H31	9			
Alkyldiol		<5	Proprietary 230-029-6	-	-	
Classification:	DSD:	Xi;R36/37/38				
	CLP:	Skin Irrit. 2;H3	15, Eye Irrit. 2;H319, 9	STOT SE 3;H335		
Diethylene glycol		<5	111-46-6 203-872-2	-	603-140-00-6	
Classification:	DSD:	Xn;R22				
	CLP:	Acute Tox. 4;H	302			
Carbon black		<2.5	1333-86-4 215-609-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
Triethanolamine		<1	102-71-6 203-049-8	-	-	
Classification:	DSD:	-				
	CLP:	-				

Co

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

Carbon black is present only in a bound form in this preparation.

# 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. If irritation persists get medical

attention.

Not available.

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

4.2. Most important symptoms and effects, both

acute and delayed

No notes to physicians.

4.3. Indication of any immediate medical attention

and special treatment

needed

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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.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

procedures

Not available.

# SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Not available.

6.2. Environmental

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

precautions 6.3. Methods and material for

Not available.

containment and cleaning up

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. Remove and wash contaminated clothing before re-use.

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

7.2. Conditions for safe storage, including any

oxidizers.

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	
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	
logical 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.

8.2. Exposure controls

Appropriate engineering

Use in a well ventilated area.

controls

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### 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 required under intended use.

Skin protection

- Hand protection Not available.

**- Other** Protected gloves not required under intended use.

**Respiratory protection** For use other than intended use (such as in the event of a large spill), goggles and respirators may

be required.

**Thermal hazards** Not available.

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

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical stateNot available.FormNot available.

Color Black.

OdorNot available.Odor thresholdNot available.

**pH** 9.3

Melting point/freezing pointNot available.Initial boiling point andNot determined

boiling range

**Flash point** 200.00 °F (93.33 °C) Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammability (solid, gas)Not applicable.Upper/lower flammability or explosive limits

Flammability limit - lower

er Not determined

(%)

Flammability limit -

upper (%)

Not available.

Vapor pressureNot determinedRelative densityNot available.Solubility(ies)Soluble in waterPartition coefficientNot available.

(n-octanol/water)

Not available.

Auto-ignition temperatureNot determinedDecomposition temperatureNot available.ViscosityNot applicable.Explosive propertiesNot available.Oxidizing propertiesNot determined

9.2. Other information

**Specific gravity** 1 - 1.1 **VOC (Weight %)** < 192 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

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SECTION 11: Toxicological information **General information** Not available. Information on likely routes of exposure Ingestion Not available. Not available. **Inhalation Skin contact** Not available. Eye contact Not available. Not available. **Symptoms** 

# 11.1. Information on toxicological effects

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Carbon black (CAS 1333-86-4)			
Acute			
<i>Oral</i> LD50	Rat	> 8000 mg/kg	
		> 6000 Hig/kg	
Diethylene glycol (CAS 111-46-6 <b>Acute</b>	5)		
Dermal			
LD50	Rabbit	11890 mg/kg	
Oral		3, 3	
LD50	Cat	3300 mg/kg	
	Dog	9000 mg/kg	
	Guinea pig	8700 mg/kg	
	, 5	14 g/kg	
	Mouse	23700 mg/kg	
		13.3 g/kg	
	Rabbit	26.9 g/kg	
	Rat	12565 mg/kg	
		15.6 g/kg	
Other		13.0 g/Ng	
LD50	Mouse	22500 mg/kg	
		9.6 g/kg	
	Rabbit	2000 mg/kg	
	Rat	7700 mg/kg	
	Nac	7.7 g/kg	
Triethanolamine (CAS 102-71-6)	)	ייי פייזפ	
Acute	,		
Dermal			
LD50	Rabbit	> 20000 mg/kg	
Oral			
LD50	Guinea pig	5300 mg/kg	
	Rat	8 g/kg	
Other			
LD50	Mouse	1450 mg/kg	
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
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**Respiratory sensitization** Not available. Skin sensitization Not available. Germ cell mutagenicity Not available.

Carcinogenicity Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group

> 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains

bound within a product matrix, specifically, rubber, ink, or paint.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Reproductive toxicity Not available. Not available. Specific target organ toxicity

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Mixture versus substance

information

Not available. Not available.

Other information This ink formulation has not been tested for toxicological effects.

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

# SECTION 12: Ecological information

LC50/96h/Fathead minnows => 750 mg/L **Aquatic toxicity** 

12.1. Toxicity

**Components Species Test Results** 2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Crustacea

Diethylene glycol (CAS 111-46-6)

**Aquatic** 

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

Triethanolamine (CAS 102-71-6)

**Aquatic** 

Crustacea EC50 Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours LC50 Fish Fathead minnow (Pimephales promelas) 10610 - 13010 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 -0.85Triethanolamine -1

**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.

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Dispose of in compliance with federal, state, and local 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

#### **ADR**

Not regulated as dangerous goods.

#### **RID**

Not regulated as dangerous goods.

#### **ADN**

Not regulated as dangerous goods.

#### **IATA**

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

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

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

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

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

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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)

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### 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.

**National regulations** 15.2. Chemical Safety

Not available. Not available.

**Assessment** 

SECTION 16: Other information

References Not available.

Full text of any statements or **R-phrases and H-statements** under Sections 2 to 15

R22 Harmful if swallowed. R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Revision information** None.

**Training information** Not available.

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> Company. Data is the most current known to Hewlett-Packard Company 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

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**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

Superfund Amendments and Reauthorization Act of 1986 **SARA** 

**STEL** Short-Term Exposure Limit

TCI P Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act VOC Volatile Organic Compounds

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