

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9454Series

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 25-Jun-2013

Version number

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 Hewlett-Packard, Ltd.

Cain Road, Amen Corner

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

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 **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 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.

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 hazards Not available. **Main symptoms** Not available.

2.2. Label elements

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

2-pyrrolidone, Alkyldiol, Diethylene glycol, Water Contains:

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

information

2.3. Other hazards This yellow 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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: C9454Series SDS UK 1/8

General information

% CAS-No. / EC No. REACH Registration No. Index No. **Chemical name Notes** Water <80 7732-18-5 231-791-2 Classification: DSD: -CLP: -2-pyrrolidone <10 616-45-5 210-483-1 **Classification:** DSD: Xi;R36 **CLP:** Eye Irrit. 2;H319 Diethylene glycol <7.5 111-46-6 603-140-00-6 203-872-2 Classification: **DSD:** Xn;R22 CLP: Acute Tox. 4;H302 Alkyldiol <5 **Proprietary** 230-029-6 **Classification: DSD:** Xi;R36/37/38 CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335

Composition comments This ink supply contains an aqueous ink formulation.

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.

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

4.3. Indication of any

immediate medical attention

and special treatment

needed

No notes to physicians.

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

Not available.

mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Material name: C9454Series SDS UK

Special fire fighting procedures

Not available.

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

Not available.

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. Store away from strong 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)

Value Components Type Diethylene glycol (CAS **TWA** 101 mg/m3

111-46-6)

23 ppm

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.

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 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 state Not available. **Form** Not available. Color Yellow

Material name: C9454Series SDS UK

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

pН 9.2

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

boiling range Flash point

> 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup

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

Flammability limit - lower

(%)

Not determined

Flammability limit -

upper (%)

Not available.

Vapor pressure Not determined **Relative density** Not available. Soluble in water Solubility(ies) **Partition coefficient** Not available. (n-octanol/water)

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

9.2. Other information

VOC (Weight %) < 204 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.

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. Information on likely routes of exposure Ingestion Not available. **Inhalation** Not available. Skin contact Not available. **Eye contact** Not available. **Symptoms** Not available.

11.1. Information on toxicological effects

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

Acute Oral

LD50 Guinea pig 6500 mg/kg 6500 mg/kg Rat

Material name: C9454Series SDS UK

Components	Species	Test Results
Diethylene glycol (CAS 111-46-6)	opes.es	
Acute		
Dermal		
LD50	Rabbit	11890 mg/kg
Oral		
LD50	Cat	3300 mg/kg
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
		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		
LD50	Mouse	22500 mg/kg
		9.6 g/kg
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Mixture versus substance information	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

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

12.1. Toxicity

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	6-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours
12.2. Persistence and degradability	Not available.		
12.3. Bioaccumulative potential	Not available.		

Material name: C9454Series SDS UK

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85

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

12.5. Results of PBTNot 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 wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

Disposal Dispose of in compliance with federal, state, and local regulations.

methods/information 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

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

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.

Material name: C9454Series SDS UK

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 regulationsAll 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

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients Fire Fighting Measures: Fire & Explosion Properties

Physical & Chemical Properties: Physical & Chemical Properties 14. Transport Information: Material Transportation Information

15. Regulatory Information: United States

HazReg Data: Europe - EU

Training information

Not available.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc 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

may not meet regulatory requirements in other countries.

Manufacturer information

Hewlett-Packard Company 3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

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

Material name: C9454Series SDS UK

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

Material name: C9454Series SDS UK