

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9453Series

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.

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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 hazards Not available. Main symptoms Not available.

2.2. Label elements

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

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

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

information

2.3. Other hazards This magenta 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: C9453Series SDS UK 1/8

General information

% CAS-No. / EC No. REACH Registration No. Index No. **Chemical name Notes** Water <70 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;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 Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335 **Triethanolamine** 102-71-6 <1 203-049-8 Classification: DSD: -

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.

CLP:

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

CO2, water, dry chemical, or foam

media

Unsuitable extinguishing None known.

media

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5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective

Not available.

equipment for firefighters

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 Not available. responders

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. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

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

oxidizers.

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	
Diethylene glycol (CAS 111-46-6)	TWA	101 mg/m3	
111 10 0)		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.

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

be required.

Thermal hazards Not available.

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Not available. **Form** Not available. Color Magenta Odor Not available. **Odor threshold** Not available.

9.4

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

boiling range

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

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Not determined

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

(n-octanol/water)

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

9.2. Other information

VOC (Weight %) < 241 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon decomposition products 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. **Eve contact** Not available. Not available. **Symptoms**

11.1. Information on toxicological effects

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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		
<i>Dermal</i>	Dakhit	11900 mg/kg
LD50	Rabbit	11890 mg/kg
<i>Oral</i> LD50	Cat	3300 mg/kg
LD30	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
	Затеа рід	
		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
Triethanolamine (CAS 102-71-6)		
Acute		
Dermal	5.110	2000
LD50	Rabbit	> 20000 mg/kg
Oral	Cuinas nis	F200 //
LD50	Guinea pig	5300 mg/kg
011	Rat	8 g/kg
<i>Other</i> LD50	Maura	1450
	Mouse	1450 mg/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.	

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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)

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
Fish LC50 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 -0.85 Triethanolamine -1

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

12.5. Results of PBT Not

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 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.

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Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

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

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.

National regulations Not available. 15.2. Chemical Safety

Assessment

Not available.

SECTION 16: Other information

References Not available.

R22 Harmful if swallowed. Full text of any statements or **R-phrases and H-statements** R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin. under Sections 2 to 15

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.

Material name: C9453Series SDS UK

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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

may not meet regulatory requirements in other countries.

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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

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

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