SAFETY DATA SHEET

1. Identification

Product identifier C9453Series Other means of identification Not available. Recommended use Inkjet printing **Recommended restrictions** None known.

Company identification

Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard 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

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

Hazard statement Not available.

Precautionary statement

Prevention Not available. Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

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

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60-70
2-pyrrolidone		616-45-5	<7.5
Diethylene glycol		111-46-6	<7.5
Alkyldiol		Proprietary	<5
Glycerol		56-81-5	<5
Pigment red		Proprietary	<5

Material name: C9453Series SDS US

9394 Version #: 01 Issue date: 09-Apr-2015

Composition comments

This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. 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.

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.

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

Most important

symptoms/effects, acute and

delayed

5. Fire-fighting measures

Suitable extinguishing media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

Not available.

firefighters **Specific methods**

None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for

Not available.

containment and cleaning up **Environmental precautions**

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

7. Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing.

Conditions for safe storage,

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. Workplace Environmental	Exposure Level (WEEL) Guide	s	
Components	Туре	Value	
Diethylene glycol (CAS	TWA	10 mg/m3	
111-46-6)			

Biological limit values No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product. **Exposure guidelines**

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not required under intended use.

Material name: C9453Series SDS US 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.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical stateNot available.ColorMagentaOdorNot available.Odor thresholdNot available.

pH 9.4

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

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

Flammability limit - lower Not determined

(%)

6)

Flammability limit - upper (%)

Explosive limit - lower

(%)

Not available.

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressure Not determined

Solubility(ies)

Solubility (water) Soluble in water

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot determinedDecomposition temperatureNot available.ViscosityNot available.

Other information For other VOC regulatory data/information see Section 15.

VOC (Weight %) < 241 g/l

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Not available.

Incompatible materials Incompatible with strong bases and oxidizing agents.

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

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Based on available data, the classification criteria are not met. **Acute toxicity** Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Respiratory or skin sensitization

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. 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

Aspiration hazard

Further information

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

Specific target organ toxicity - repeated exposure

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

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45	5-5)		
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Diethylene glycol (CAS 111	1-46-6)		
Acute			
Dermal			
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			
LD50	Mouse	9.6 g/kg	
	Rabbit	2000 mg/kg	
	Rat	7700 mg/kg	
		7.7 g/kg	

Material name: C9453Series SDS US

12. Ecological information

Ecotoxicity

Product Species Test Results

C9453Series (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)

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 51000 - 57000 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability Not available. **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85 Glycerol -1.76

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

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

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.

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.

15. Regulatory information

US TSCA 12(b): Does not contain listed chemicals.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical
Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5) Glycerol (CAS 56-81-5)

US. New Jersey Worker and Community Right-to-Know Act

Glycerol (CAS 56-81-5)

US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5) Diethylene glycol (CAS 111-46-6) Glycerol (CAS 56-81-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Other information VOC content (less water, less exempt compounds) = < 859 q/L (U.S. requirement, not for

emissions) VOC data based on formulation (Organic compounds minus solids)

Regulatory information 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.

16. Other information, including date of preparation or last revision

Issue date 09-Apr-2015

Version # 01

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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.

Manufacturer information Hewlett-Packard Company

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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