

SAFETY DATA SHEET

1. Identification

Product identifier	C9454Series
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	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
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	70-80
2-pyrrolidone		616-45-5	<10
Diethylene glycol		111-46-6	<7.5
Alkyldiol		Proprietary	<5
Yellow pigment		Proprietary	<5
Composition comments	This ink supply contains an aqueous ink formulat	tion.	

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.
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.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing	CO2, water, dry chemical, or foam None known.
media	Net evelophie
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Not available.
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. Workplace Environme Components	ental Exposure Level (WEEL) Guide Type	s Value
Diethylene glycol (CAS 111-46-6)	TWA	10 mg/m3
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Exposure guidelines	Exposure limits have not been estab	lished for this product.
Appropriate engineering controls	Use in a well ventilated area.	
Individual protection measur	es, such as personal protective equ	ipment
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 (sub be required.	ch as in the event of a large spill), goggles and respirators may
Thermal hazards	Not available.	
General hygiene considerations	Handle in accordance with good indu	ustrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	
Physical state	Not available.
Color	Yellow
Odor	Not available.
Odor threshold	Not available.
рН	9.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 204 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 e	ffects
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 irritation	Based on available data, the classification criteria are not met.

Respiratory sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
Germ cell mutagenicity			
Carcinogenicity			
Reproductive toxicity			
pecific target organ toxicity single exposure			
pecific target organ toxicity repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classif	ication criteria are not met.	
Further 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.		
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			
Dermal			
LD50	Rabbit	11890 mg/kg	
Oral	C -1	2200 "	
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			
<i>Other</i> LD50	Mouse	9.6 g/kg	
	Mouse Rabbit	9.6 g/kg 2000 mg/kg	

12. Ecological information

toxicity				
Product		Species	Test Results	
C9454Series (CAS Mix	ture)			
Aquatic				
Acute				
Fish	LC50	Fathead minnow (Pimephales promelas)	> 750 mg/l, 96 hours	
Components		Species	Test Results	
2-pyrrolidone (CAS 61	.6-45-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours	
Diethylene glycol (CAS	5 111-46-6)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours	

7.7 g/kg

Material name: C9454Series

	Niek ersettelete		
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-octa 2-pyrrolidone	-0.85		
Mobility in soil	Not available.		
Other adverse effects	effects Not available.		
13. Disposal consideration	 DNS		
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 o 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 informatio	n		
DOT			
Not regulated as dangerous g	oods.		
IATA			
Not regulated as dangerous g	oods.		
IMDG			
Not regulated as dangerous g	oods.		
ADR			
Not regulated as dangerous goods			
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.		
15. Regulatory informati	on		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.		
TSCA Section 12(b) Export	t Notification (40 CFR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
Not listed. SARA 304 Emergency relea	ase notification		
Not regulated.			
OSHA Specifically Regulate Not listed.	ed Substances (29 CFR 1910.1001-1050)		
-	eauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No		
	Fire Hazard - No		
	Pressure Hazard - No		
CADA 202 Estremela hara	Reactivity Hazard - No		
SARA 302 Extremely haza Not listed.			
SARA 311/312 Hazardous chemical	No		
Other federal regulations			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. Massachusetts RTK - S	ubstance List		
2-pyrrolidone (CAS 616-4	•		
Not listed.	d Community Right-to-Know Act		

US. Pennsylvania Worke	er and Community Right-to-Know Law	
2-pyrrolidone (CAS 61		
Diethylene glycol (CAS	5 111-46-6)	
US. Rhode Island RTK		
Not regulated.		
US. California Propositio	on 65	
Not Listed.		
Other information	VOC content (less water, less exempt compounds) = < 834 g/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
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard 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

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

Direct 1-650-857-5020