

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier	C9449Series
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	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)	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. 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.
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	<7.5
Alkyldiol		Proprietary	<5
Diethylene glycol		111-46-6	<5

Chemical name	Common name and synonyms	CAS number	%
Glycerol		56-81-5	<5
Carbon black		1333-86-4	<2.5
Composition comments	This ink supply contains an aqueous ink formulat This product has been evaluated using criteria sp Communication Standard).		10.1200 (Hazard
	Carbon black is present only in a bound form in t	his preparation.	
4. First-aid measures			
Inhalation	Move to fresh air. If symptoms persist, get medic	cal attention.	
Skin contact	Wash affected areas thoroughly with mild soap a attention.	nd water. If irritatior	n persists get medical
Eye contact	Do not rub eyes. Immediately flush with large an least 15 minutes or until particles are removed. I		
Ingestion	If material is ingested, immediately contact a phy	sician or poison con	trol center.
Most important symptoms/effects, acute and delayed	Not available.		
5. Fire-fighting measures	5		
Suitable extinguishing media Unsuitable extinguishing media	CO2, water, dry chemical, or foam None known.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
Specific methods	None established.		
6. Accidental release mea	asures		
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 sa	nitary sewer system.
7. Handling and storage			
Precautions for safe handling Conditions for safe storage, including any incompatibilities	Avoid contact with skin, eyes and clothing. Keep out of the reach of children. Keep away from	m excessive heat or	cold.
8. Exposure controls/per	sonal protection		
Occupational exposure limits	-		
US. OSHA Table Z-1 Limits Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
Carbon black (CAS	PEL	3.5 mg/m3	
1333-86-4) Glycerol (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
US. ACGIH Threshold Limit Components	: Values Type	Value	Form

TWA

Inhalable fraction.

3 mg/m3

US. NIOSH: Pocket Guide Components	to Chemical Hazards Type	Value
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3
US. Workplace Environme	ntal Exposure Level (WEEL) Guides	
Components	Туре	Value
Diethylene glycol (CAS 111-46-6)	TWA	10 mg/m3
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).
Exposure guidelines	Exposure limits have not been establis	shed for this product.
Appropriate engineering controls	Use in a well ventilated area.	
Individual protection measure	es, such as personal protective equi	pment
Eye/face protection	Not required under intended use.	
Skin protection		
Hand protection	Not available.	
Other	Protected gloves not required under in	ntended use.
Respiratory protection	For use other than intended use (such be required.	as in the event of a large spill), goggles and respirators may
Thermal hazards	Not available.	
General hygiene considerations	Handle in accordance with good indus	trial hygiene and safety practice.

# 9. Physical and chemical properties

•	
Appearance	
Physical state	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	9.3
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	
Specific gravity	1 - 1.1
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 192 g/L

# 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	Not available. Stable under recommended storage conditions. Will not occur.
Conditions to avoid Incompatible materials	Not available. 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	Not available.
physical, chemical and	
toxicological characteristics	

#### Information on toxicological effects

Acute toxicity		
Acute toxicity	Based on available data, the classif	ication criteria are not met.
Skin corrosion/irritation	Based on available data, the classif	ication criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classif	ication criteria are not met.
Respiratory or skin sensitization	on	
Respiratory sensitization	Based on available data, the classif	ication criteria are not met.
Skin sensitization	Based on available data, the classif	ication criteria are not met.
Germ cell mutagenicity	Based on available data, the classif	ication criteria are not met.
Carcinogenicity	Based on available data, the classif	ication criteria are not met.
	2B) and by the State of California u organizations indicate that exposure	nogen by the IARC (possibly carcinogenic to humans, Group nder Proposition 65. In their evaluations of carbon black, both e to carbon black, per se, does not occur when it remains cifically, rubber, ink, or paint. Carbon black is present only in a
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Carbon black (CAC 1222 (		
Carbon black (CAS 1333-8	2D 2D	Possibly carcinogenic to humans.
Reproductive toxicity	Based on available data, the classif	, ,
Υ.	,	ication criteria are not met.
Reproductive toxicity Specific target organ toxicity	Based on available data, the classif	ication criteria are not met. ication criteria are not met.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity	Based on available data, the classif Based on available data, the classif	ication criteria are not met. ication criteria are not met. ication criteria are not met.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met. able for this specific formulation
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail Refer to Section 2 for potential hea	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met. able for this specific formulation Ith effects and Section 4 for first aid measures.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information Components	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail Refer to Section 2 for potential hea	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met. able for this specific formulation Ith effects and Section 4 for first aid measures.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information Components 2-pyrrolidone (CAS 616-45-5)	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail Refer to Section 2 for potential hea	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met. able for this specific formulation Ith effects and Section 4 for first aid measures.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Further information Components 2-pyrrolidone (CAS 616-45-5) Acute	Based on available data, the classif Based on available data, the classif Based on available data, the classif Based on available data, the classif Complete toxicity data are not avail Refer to Section 2 for potential hea	ication criteria are not met. ication criteria are not met. ication criteria are not met. ication criteria are not met. able for this specific formulation Ith effects and Section 4 for first aid measures.

Components	Species	Test Results
Carbon black (CAS 1333-8	6-4)	
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Diethylene glycol (CAS 111	l-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

# 12. Ecological information

otoxicity			
Product		Species	Test Results
C9449Series (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	5-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours
Glycerol (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
sistence and degradability	Not available.		
accumulative potential	Not available.		
Partition coefficient n-octa	anol / water (l	og Kow)	
2-pyrrolidone		-0.85	
Glycerol		-1.76	
bility in soil	Not available.		
ner adverse effects	Not available.		

## 13. Disposal considerations

Disposal	inctru	ctions
Disposar	moura	Clions

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 federal regulations**

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	catego	ries
IIGEGIG	Carcege	

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) Carbon black (CAS 1333-86-4) Glycerol (CAS 56-81-5)

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

Carbon black (CAS 1333-86-4) Glycerol (CAS 56-81-5)

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

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Diethylene glycol (CAS 111-46-6) Glycerol (CAS 56-81-5)

## **US. Rhode Island RTK**

Not regulated.

#### US. California Proposition 65

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

	BORNE, UNBOUND PARTICLES Listed: February 21, 2003 E [<= 10 MICROMETERS]) (CAS
/	
Other information	VOC content (less water, less exempt compounds) = $< 863$ 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),

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

China.

zer etner mernaden, meraanig aate er preparation er haer etneren		
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 Direct 1-650-857-5020	

Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and

#### **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