SAFETY DATA SHEET

1. Identification

Product identifierC9451SeriesOther means of identificationNot available.Recommended useInkjet printingRecommended restrictionsNone 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

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot 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	80-90
Alkyldiol		Proprietary	<7.5
2-pyrrolidone		616-45-5	<5
Diethylene glycol		111-46-6	<5

Material name: C9451Series sps us

9392 Version #: 01 Issue date: 08-Apr-2015

Chemical nameCommon name and synonymsCAS number%Carbon black1333-86-4<1</td>

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).

Carbon black is present only in a bound form in this preparation.

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

 Components
 Type
 Value

 Carbon black (CAS 1333-86-4)
 PEL 3.5 mg/m3

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon black (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			

Material name: C9451Series sps us

US. NIOSH: Pocket Guide to Chemical Hazards

Value Components **Type**

Carbon black (CAS **TWA** 0.1 mg/m3

1333-86-4)

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value Diethylene glycol (CAS **TWA** 10 mg/m3

111-46-6)

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

Use in a well ventilated area. Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Hand protection Not available. Other Not available. **Respiratory protection** Not available. Thermal hazards Not available.

General hygiene Handle in accordance with good industrial hygiene and safety practice.

considerations

9. Physical and chemical properties

Appearance

Physical state Not available. Color Light Grey Odor Not available. Not available. Odor threshold

9.4 Hq

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

boiling range

> 230.0 °F (> 110.0 °C) Setaflash Closed Cup Flash point

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

Flammability limit - lower

Not determined

(%)

Flammability limit -Not available.

upper (%)

Explosive limit - lower Not available.

(%)

Explosive limit - upper Not available.

(%)

Not determined Vapor pressure

Solubility(ies)

Solubility (water) Soluble in water Not available. **Partition coefficient**

(n-octanol/water)

Auto-ignition temperature Not determined **Decomposition temperature** Not available. **Viscosity** Not available.

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

Material name: C9451Series

3/7 9392 Version #: 01 Issue date: 08-Apr-2015

VOC (Weight %) < 63.7 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 Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride, fluorinated hydrocarbons

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Respiratory or skin sensitization

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

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

irritation

Respiratory sensitizationBased on available data, the classification criteria are not met.Skin sensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.

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

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Rat

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Reproductive toxicityBased 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

Specific target organ toxicity - repeated exposure

Oral LD50

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

Aspiration hazardBased on available data, the classification 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.

> 8000 mg/kg

Components	Species	lest Results		
2-pyrrolidone (CAS 616-45-5)				
Acute				
Oral				
LD50	Guinea pig	6500 mg/kg		
	Rat	6500 mg/kg		
Carbon black (CAS 1333-86	5-4)			
Acute				

Material name: C9451Series sps us

9392 Version #: 01 Issue date: 08-Apr-2015

Components	Species Test Results			
Diethylene glycol (CAS 111-46-6)				
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

Ecotoxicity

Product		Species	Test Results
C9451Series (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	S 111-46-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours

Persistence and degradabilityNot available.Bioaccumulative potentialNot available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85

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.

Material name: C9451Series sps us

9392 Version #: 01 Issue date: 08-Apr-2015

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) Carbon black (CAS 1333-86-4)

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

Carbon black (CAS 1333-86-4)

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)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES Listed: February 21, 2003 OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS

1333-86-4)

Other information VOC content (less water, less exempt compounds) = < 405.8 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.

Material Hairie: C94515eries

Material name: C9451Series sps us

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

Issue date 08-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

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: C9451Series sps us