# SAFETY DATA SHEET

# 1. Identification

Product identifier51645 SeriesOther 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)

Complete toxicity data are not available for this specific formulation

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.

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. 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	75-85
2-pyrrolidone		616-45-5	<15

Material name: 51645 Series SDS US

Chemical name	Common name and synonyms	CAS number	%
Carbon black		1333-86-4	<5
Isopropyl alcohol		67-63-0	<2.5

**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.

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical **Skin contact** 

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 ingestion of a large amount does occur, seek medical attention.

Most important

symptoms/effects, acute and

delayed

Contact with skin and eyes may result in irritation.

# 5. Fire-fighting measures

**Notes** No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test

(method in US 49CFR173, Appendix H).

Suitable extinguishing media

Unsuitable extinguishing

media

CO2, water, dry chemical, or foam

None known.

Specific hazards arising from the chemical

firefighters

Not applicable.

Special protective equipment

and precautions for

None established.

**Specific methods** None established.

**General fire hazards** Contact with skin and eyes may result in irritation.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Slowly vacuum or sweep the

material into a bag or other sealed container.

Dispose of in compliance with federal, state, and local regulations.

**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	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3	

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

Components	Туре	Value	
		400 ppm	
US. ACGIH Threshold Limit Va Components	lues Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to C	hemical Hazards		
Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
·	TWA	500 ppm 980 mg/m3 400 ppm	

### **Biological limit values**

Components	Value	Determinant	Specimen	Sampling Time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

**Exposure guidelines** Exposure limits have not been established for this product.

**Appropriate engineering** 

controls

Use in a well ventilated area.

# Individual protection measures, such as personal protective equipment

Liquid.

**Eye/face protection** Not available.

**Skin protection** 

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

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

### **Appearance**

Color
Black.
Odor
Not available.
Odor threshold
PH
7.8 - 8.4
Melting point/freezing point
Not available.

Initial boiling point and

**Physical state** 

boiling range

200 °F (93.33 °C)

Flash point 131.0 - 136.0 °F (55.0 - 57.8 °C)

**Evaporation rate** Not determined **Flammability (solid, gas)** Not available.

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Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Not determined

Vapor pressure

Solubility(ies)

Solubility (water) Soluble in water
Partition coefficient Not determined

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cp

Other information

**Specific gravity** 1 - 1.2

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

**VOC (Weight %)** < 116.6 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.

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

#### Information on toxicological effects

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 or skin sensitization

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

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

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

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Specific target organ toxicity - single exposure

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.

Prepeated exposure

Aspiration hazard

Based 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.

Components	Species	Test Results
2-pyrrolidone (CAS 616-45	5-5)	
Acute		
Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Carbon black (CAS 1333-8	6-4)	
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Isopropyl alcohol (CAS 67-	-63-0)	
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
Other		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg
		5. 3

# 12. Ecological information

**Aquatic toxicity** Not expected to be harmful to aquatic organisms.

**Ecotoxicity** 

Product		Species	Test Results
51645 Series (CAS Mixt	ure)		
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
Isopropyl alcohol (CAS	67-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Acute			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	9460 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

Material name: 51645 Series 9235 Version #: 01 Issue date: 01-Apr-2015 **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85 Isopropyl alcohol 0.05

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.

**Contaminated packaging** No special precautions.

# 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.

No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous

Goods Regulations Section 3.3.1.3.

No ignition, sustained combustion or flashing detected using the sustained combustibility test

(method in US CFR173, Appendix H).

# 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** 

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Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

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

Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

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

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

### **US. Rhode Island RTK**

Isopropyl alcohol (CAS 67-63-0)

### **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) = <592.5 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** 01-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.

**Revision Information** Product and Company Identification: Product Uses

Composition / Information on Ingredients

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity

15. Regulatory Information: Risk Phrases - Labeling

GHS: Classification

Manufacturer information Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

Direct 1-650-857-5020

Material name: 51645 Series sps us

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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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