# SAFETY DATA SHEET

## 1. Identification

Product identifier51644YSeriesOther 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)

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	<b>CAS</b> number	%
Water		7732-18-5	70-80
metal nitrate # 1		Proprietary	<10
2-pyrrolidone		616-45-5	<5
Diethylene glycol		111-46-6	<5
Alkyldiol ethoxylate		Proprietary	<2.5
arylazopyrazolesulfonate salt # 1		Proprietary	<2.5

Material name: 51644YSeries SDS US

**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 Remove to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

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 Not available.

symptoms/effects, acute and

delayed

# 5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

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 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.

**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 Environmental Exposure Level (WEEL) Guides** 

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

111-46-6) **Biological limit values** 

**Exposure guidelines** 

No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product.

Use in a well ventilated area. Appropriate engineering controls Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Not required under intended use.

Skin protection

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**Hand protection** Not available.

Protected gloves not required under intended use. Other

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 state** Liquid. Color Yellow

Not available. Odor **Odor threshold** Not available. 6 - 6.6

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

boiling range

Flash point > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup

**Evaporation rate** Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive 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** Not available. (n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** >= 2 cp

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

VOC (Weight %) < 88.1 g/l

## 10. Stability and reactivity

Reactivity Not available.

Stable under recommended storage conditions. Chemical stability

**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.

## 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.

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Serious eye damage/eye

irritation

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

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

Specific target organ toxicity

- single exposure

Specific target organ toxicity

- repeated exposure

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

**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) **Acute** Oral LD50 Guinea pig 6500 mg/kg Rat 6500 mg/kg arylazopyrazolesulfonate salt # 1 (CAS Proprietary) Acute Dermal LD50 Rabbit 2000 mg/kg Oral LD50 Rat 81 mg/kg Chronic Oral

Diethylene glycol (CAS 111-46-6)

**Acute** 

NOAEL

Dermal

LD50 Rabbit 11890 mg/kg

Rat

Oral

Other LD50

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

Mouse 9.6 g/kg

Rabbit 2000 mg/kg Rat 7700 mg/kg

7.7 g/kg

SDS US

12565 mg/kg

1 mg/kg

# 12. Ecological information

**Aquatic toxicity** Static acute toxicity (trout), survival (100 mg/L) = 100%

Static acute toxicity (trout), survival (10 mg/L) = 100%

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**Ecotoxicity** 

**Test Results** Components **Species** 

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

arylazopyrazolesulfonate salt # 1 (CAS Proprietary)

**Aquatic** 

Algae IC50 Algae <= 100 mg/l, 72 Hours Crustacea EC50 30 mg/l, 48 Hours Daphnia LC50 Fish Fish 1000 mg/l, 96 Hours

Diethylene glycol (CAS 111-46-6)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours

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

Partition coefficient n-octanol / water (log Kow)

-0.85 2-pyrrolidone

Mobility in soil Not available. Other adverse effects Not 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 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)** 

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

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### **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)

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

Not listed.

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

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

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not Listed.

**Other information** VOC content (less water, less exempt compounds) = <386 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** 16-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: Synonyms

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

15. Regulatory Information: United States

Material Attributes & Uses; Experimental Data: Physical States

HazReg Data: Europe - EU

 Manufacturer information
 Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

Direct 1-650-857-5020

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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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