# SAFETY DATA SHEET

#### 1. Identification

Product identifierC4823SeriesOther 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** Serious eye damage/eye irritation

Category 1

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Causes serious eye damage.

**Precautionary statement** 

**Prevention** P280 - Wear protective gloves/protective clothing/eye protection.

**Response** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

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	60-70
1,5-pentanediol		111-29-5	<10
2-pyrrolidone		616-45-5	<10

Material name: C4823Series sps us

Chemical name	Common name and synonyms	CAS number	%
Alkyldicarboxylic acid		Proprietary	<7.5
Alkyldiol ethoxylate		Proprietary	<2.5
Substituted naphthalenesulfonate salt # 7		Proprietary	<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).

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

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.

and precautions

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

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** No exposure limits noted for ingredient(s).

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

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

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Not available.

**Other** Wear appropriate chemical resistant gloves.

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**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 stateLiquid.ColorYellow

Odor Not available.
Odor threshold Not available.
pH 3.8 - 4.3
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 rateNot determinedFlammability (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 temperatureNot available.Decomposition temperatureNot available.Viscosity>= 2 cp

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

**VOC (Weight %)** < 169 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.

## 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Material name: C4823Series sps us

Based on available data, the classification criteria are not met. **Acute toxicity** Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

Causes serious eye damage.

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 6500 mg/kg Rat

Alkyldicarboxylic acid (CAS Proprietary)

**Acute** Oral

LD50 Rat 2260 mg/kg

## 12. Ecological information

**Aquatic toxicity** Static acute toxicity (trout), survival (100 mg/L) = 80%

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

**Ecotoxicity** 

Product		Species	Test Results
C4823Series (CAS Mixture)			
Aquatic			
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hr
Acute			
Algae	EC50	Algae	> 100 mg/l, 72 hours
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	< 400 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
Alkyldicarboxylic acid (CAS P	roprietary)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	350 - 400 mg/l, 48 hours
Fish	LC50	Fish	101, 96 Hours
sistence and degradability	Not available.		
accumulative potential	Not available.		

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#### Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85 Alkyldicarboxylic acid -0.59

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.

**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 - Yes

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)

**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)

Material name: C4823Series SDS US

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

Not regulated.

#### **US. California Proposition 65**

Not Listed.

Other information VOC data based on formulation (Organic compounds minus solids) VOC content (less water, less

exempt compounds) = <529 g/L (U.S. requirement, not for emissions)

**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

**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.

**Revision Information** Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity Regulatory Information: United States

Material Attributes & Uses; Experimental Data: Physical States

HazReg Data: Pacific Rim

GHS: Classification

**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

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