

## MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

**Identification of the** 

preparation

C4843Series

**Product use** Inkjet printing

Version # 05

Revision date 20-Apr-2011
CAS # Mixture

**Company identification** Hewlett-Packard Company

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**United States** 

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## 2. Hazards Identification

**Emergency overview** 

Contact with skin and eyes may result in irritation.

**Acute health effects** 

Any potential hazards are presumed to be due to exposure to the components.

Skin contact 1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldicarboxylic acid

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

**Eye contact** *1,5-pentanediol* 

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldicarboxylic acid

Contact can cause moderate to severe irritation and possible injury to the eyes.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

**Inhalation** *2-pyrrolidone* 

Inhalation may result in respiratory irritation.

Alkyldicarboxylic acid

Inhalation may result in respiratory irritation.

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**Ingestion** 2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldicarboxylic acid

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

**Potential health effects** 

**Routes of exposure** 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

**Chronic health effects** 

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

# 3. Composition / Information on Ingredients

Components	CAS #	Percent
Water	7732-18-5	60 - 70
1,5-pentanediol	111-29-5	7.5 - 10
2-pyrrolidone	616-45-5	5 - 7.5
Alkyldicarboxylic acid	Proprietary	5 - 7.5
Ethyl alkyldiol	Proprietary	5 - 7.5
Substituted napthalenesulfonate salt #8	Proprietary	2.5 - 5
Alkyldiol ethoxylate	Proprietary	1 - 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

First aid procedures

**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.

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

attention.

InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

### 5. Fire Fighting Measures

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Specific methods
Hazardous combustion

None established. Refer to section 10.

products

# 6. Accidental Release Measures

**Personal precautions**Wear appropriate personal protective equipment.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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**Methods for containment** 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.

Methods for cleaning up

Soak up with inert absorbent material.

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other

sealed container. Dispose of in compliance with federal, state, and local regulations. See also

section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Storage Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls / Personal Protection

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

**Engineering controls** Use in a well ventilated area.

Provide adequate ventilation.

Personal protective equipment

Eye / face protection Not required under intended use.

Skin protection Protected gloves not required under intended use.

**Respiratory protection** For use other than intended use (such as in the event of a large spill), goggles and respirators may

be required.

**General hygiene** considerations

Handle in accordance with good industrial hygiene and safety practice.

General Use personal protective equipment to minimize exposure to skin and eye.

# 9. Physical & Chemical Properties

**Appearance** Not available. Color Not available. Not available. Odor **Odor threshold** Not available.

**Physical state** Liquid

Not available. **Form** 

рH 3.75

Not available. **Melting point** Not available. Freezing point **Boiling point** Not determined

200 °F (93.3 °C) Pensky-Martens Closed Cup Flash point

Not determined **Evaporation rate** Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Vapor pressure Not determined Vapor density Not available.

Specific gravity 1

Relative density Not available. Solubility (water) Soluble in water **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

**Viscosity** 2 cp VOC < 3 %

### 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions. **Incompatible materials** Incompatible with strong bases and oxidizing agents.

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**Hazardous decomposition** 

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

### 11. Toxicological Information

Serious eye damage/eye

irritation

Not available.

Skin sensitization

Not available.

**Further information** 

This ink formulation has not been tested for toxicological effects.

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

### 12. Ecological Information

**Ecotoxicity** 

EC50: > 100 mg/l, Algae, 72.00 hr EC50: > 100 mg/l, Daphnia, 48.00 hr

NOEC: 100 mg/l, Algae, 72.00 hr NOEC: 100 mg/l, Daphnia, 48.00 hr

Information given is based on data on the components and the ecotoxicology of similar products

**Aquatic toxicity** 

LC50/96h/Fathead minnows =/< 400 mg/L

Persistence and degradability Not available.

# 13. Disposal Considerations

**Disposal instructions** 

Dispose of in compliance with federal, state, and local 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

**Further information** 

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

DOT

Not regulated as dangerous goods.

### **IATA**

## **Basic shipping requirements:**

Proper shipping name **Hazard class** 

Not applicable Not applicable

**UN** number Packing group None N/A

**Additional information:** 

**Packaging exceptions** None

#### **IMDG**

Not regulated as dangerous goods.

Not regulated as dangerous goods.

### 15. Regulatory Information

**US federal regulations** US EPA TSCA 12(b): Does not contain listed chemicals.

**CERCLA (Superfund) reportable quantity** 

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

Yes

hazardous chemical

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#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories** 

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical

Yes

### State regulations

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5) Listed.

**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

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

**HMIS®** ratings Health: 1

> Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 2 Instability: 0

**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.

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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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