

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

preparation

C1823 Series

Use of the preparation

Inkjet printing

Selectability number

23

Manufacturer information

Hewlett-Packard Company 1000 NE Circle Boulevard

Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US)

1-800-457-4209

(Direct)

1-503-494-7199

General information telephone number

**HP Customer Care Line** 

1-800-474-6836

(Toll-free)

1-800-474-6836

(Direct)

1-208-323-2551 12-12-2004

**Revision date** MSDS number

16556

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/Substance	CAS Number	% By Weight
Cyan ink	one Hamber	70 by Weight
Water	7720 40 5	. 70
	7732-18-5	< 70
1,5-pentanediol	111-29-5	< 10
Ethyl alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate #2	Proprietary	< 7.5
Alkyldiol ethoxylate	Proprietary	< 2.5
Substituted phthalocyanine salt #2	Proprietary	< 2.5
Magenta ink		
Water	7732-18-5	< 70
1,5-pentanediol	111-29-5	< 10
Ethyl alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate #2	Proprietary	< 7.5
Substituted napthalenesulfonate salt #10	Proprietary	< 2.5
Alkyldiol ethoxylate	Proprietary	< 2.5

Material name C1823 SERIES Creation date 07-07-2003

MSDS US

**严43** 



Component/Substance	CAS Number	% By Weight
Yellow ink		
Water	7732-18-5	< 80
Ethyl alkyldiol	Proprietary	< 10
Metal nitrate #1	Proprietary	< 7.5
Diethylene glycol	111-46-6	< 5
2-pyrrolidone	616-45-5	< 5
Arylazopyrazolesulfonate salt #1	Proprietary	< 5
Alkyldiol ethoxylate	Proprietary	< 2,5
Tr	nis ink supply contains an aqueous ink form nis product has been evaluated using crite lazard Communication Standard).	

### 3. HAZARDS IDENTIFICATION

Emergency Overview	Contact with skin and eyes may result in irritation.
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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.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate #1

Contact with skin may result in irritation.

Metal nitrate #2

Contact with skin may result in irritation.

Substituted napthalenesulfonate salt #10

May cause sensitization by skin contact.



### Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

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.

Metal nitrate #1

Contact with eyes may result in irritation,

Metal nitrate #2

Contact with eyes may result in irritation.

Substituted napthalenesulfonate salt #10

Risk of serious damage to eyes.

#### Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Metal nitrate #1

Inhalation may result in respiratory irritation:

Metal nitrate #2

Inhalation may result in respiratory irritation.

Material name C1823 SERIES Creation date 07-07-2003

MSDS US



#### Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

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

Arylazopyrazolesulfonate salt #1

Toxic if swallowed,

Diethylene glycol

Harmful if swallowed. May cause kidney and liver damage. May depress the central

nervous system.

Metal nitrate #1

Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate #2

Contains nitrate salts, may cause methemoglobinemia,

Substituted phthalocyanine salt #2

Harmful if swallowed

#### 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 Cyan ink:

Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious

damage to health.

Yellow ink:

Arylazopyrazolesulfonate salt: Prolonged ingestion exposure may cause serious

damage to health.

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.

### 4. FIRST AID MEASURES

### First aid procedures

Creation date 07-07-2003

Eye 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

Version number 2

get medical attention.

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

irritation develops or persists.

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

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

Material name C1823 SERIES MSDS US 4/8



5. FIRE FIGHTING MEASURES

Flash point and method

> 93,3 °C (> 200 °F); Pensky-Martens Closed Cup

Hazardous combustion

products

Refer to section 10.

Extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting

procedures

None established.

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.

Procedures if material is

released or spilled

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 limit values** 

Exposure limits have not been established for this product.

Personal protective equipment

General

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

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Exposure guidelines

Use in a well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

pН

7.8 - 8.6

Vapor pressure

Not determined

Boiling point

Not determined

Solubility

Soluble in water

Specific gravity

1 - 1.2

**VOC** content

< 3 %

Flash point

> 93.3 °C (> 200 °F)

Viscosity

> 2 cp

Vapor density

Creation date 07-07-2003

> 1 (air = 1.0)

Material name C1823 SERIES

MSDS US

Version number 2

5/8



Evaporation rate

Not determined

Flammability

Not determined

Oxidizing properties

Not determined

Color

Cyan, magenta, yellow

### 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

**Stability** 

Stable under recommended storage conditions.

Hazardous polymerization

Will not occur.

Hazardous decomposition

products

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

monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Incompatibility

Incompatible with strong bases and oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

Complete toxicity data are not available for this specific formulation.

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Eye irritation

Magenta ink

Mild irritant in rabbit (OECD 405)

Sensitization

Magenta ink

Non - sensitizer in guinea pig (OECD 406)

**Oral toxicity** 

Yellow ink

LD50/oral/rat >2500 mg/kg (OECD 401)

### 12. ECOLOGICAL INFORMATION

#### Aquatic toxicity

Cyan ink

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

Magenta ink

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

Static acute toxicity (trout), survival (100 mg/L) = 23% Static acute toxicity (trout), survival (10 mg/L) = 100%

Yellow ink

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

Static acute toxicity (trout), survival (100 mg/L) = 20% Static acute toxicity (trout), survival (10 mg/L) = 100%

Material name C1823 SERIES Creation date 07-07-2003

MSDS US

Version number 2



### 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. TRANSPORTATION INFORMATION

General

Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA

Proper shipping name

Not applicable

Hazard class

Packing group

Not applicable

Packaging exceptions

None

Identification number

None

(UN)

N/A

15. REGULATORY INFORMATION

International regulations 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.

**US** federal regulations

US TSCA 12(b): Does not contain listed chemicals.

**HMIS** ratings

Health

Flammability Classification 1

Reactivity 0

**NFPA** ratings

Health

Flammability Classification 1

Reactivity 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 Extremely

No

Hazardous Substance Section 311 Hazardous

Νo

Chemical

Hazard categories

Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

16. OTHER INFORMATION

Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications

regulation (29 CFR 1910 1200).

Material name C1823 SERIES

Creation date 07-07-2003

MSDS US

Version number 2

7/8



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Replaces sheet dated 10-06-2004

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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.

#### **MSDS Sections Updated**

Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

Composition / Information on Ingredients: Ingredient Extensions

Physical & Chemical Properties: Material Properties

### **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 C1823 SERIES Creation date 07-07-2003 MSDS US

Version number 2