

# 1.0 Product and Company Identification

Identification of the preparation:

**Emergency telephone number** 

**General information telephone** 

Local Contact Information:

number:

Hewlett-Packard Health Effects Line:

Use of the preparation:

**Company Identification:** 

# C4804A - Cyan

#### **Inkjet printing**

Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, Oregon 97330-4239 United States

1-800-457-4209 (USA and Canada) 503-494-7199 (USA direct) Singapore: +001-800-332-13321

208-323-2551 (USA direct)

### Ireland

Liffey Park Technology Campus Barnhall Road, Leixlip, Co. Kildare Phone: 01 6150000

### United Kingdom

Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Phone: 1344 36-0000

Hazard Rating	NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	none

#### 2.0 Composition/Information on Hazardous Ingredients

This ink supply contains an aqueous ink formulation

Component/Substance	CAS Number	EU Number	% by	EU Classification
			Weight	
2-Pyrrolidone	616-45-5	210-843-1	<8	Xi; R36/37/38
1,5-Pentanediol	111-29-5	203-854-4	<15	not classified
Tetraethylene glycol	112-60-7	203-989-9	<5	Xi; R36/37/38
Alkylquaternaryamine	confidential	confidential	<4	Xi; R36/38
salt				
Alkyldicarboxylic acid	confidential	confidential	<7	Xi; R36/37/38
Water	7732-18-5	231-791-2	> 50	not classified



## 3.0 Hazard Identification

This cyan ink is not classified according to EU Directive 1999/45/EC.

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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.
Acute Health Hazards:	Any potential hazards are presumed to be due to exposure to the components.
	<ul> <li><u>2-Pyrrolidone</u>: Contact with eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may result in nausea, vomiting, and diarrhea.</li> <li><u>1,5-Pentanediol</u>: Contact with eyes and skin may cause irritation. Harmful if swallowed.</li> <li><u>Tetraethylene glycol</u>: Contact with eyes and skin may cause irritation. Inhalation may result in respiratory irritation.</li> <li><u>Alkylquaternaryamine salt</u>: Contact with eyes and skin may result in irritation.</li> <li><u>Alkyldicarboxylic acid</u>: Contact with eyes and skin may result in irritation.</li> </ul>
Chronic Health Hazards:	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.

### 4.0 First Aid Measures

Emergency telephone number Hewlett-Packard Health Effect Line: Inhalation:	· · · · · · · · · · · · · · · · · · ·
Ingestion:	If stomach upset persists, consult a physician.
Skin:	Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.



**Eyes:** Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.

### 5.0 Fire Fighting Measures

Extinguishing media: Water, dry chemical, carbon dioxide, foam

Unsuitable Extinguishing Media:	None known
Special Firefighting Procedures:	None known
Unusual fire and explosion hazards:	No special hazards known
Auto-ignition temperature:	Not determined
Flashpoint (method):	> 200° F, > 93.3° C (US EPA Method 1020)
Hazardous Combustion Products:	Refer to section 10

#### 6.0 Accidental release measures

Spill or Leak Procedures:	Standard eye and skin protection is recommended.
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**Environmental precautions:** Do not discharge into drains (See also Section 13, Disposal considerations)

#### 7.0 Handling and Storage

**Storage Temperature:** 59°F to 95°F; 15°C to 35°C

Handling and Storage<br/>precautions:Keep out of the reach of children.<br/>Keep away from extreme heat or cold.Shelf Life:1 year

Special Sensitivity: None

#### 8.0 Exposure control/ personal protection

Exposure Limit Values:	Tetraethylene glycol: Austria, Germany,
	Netherlands, Switzerland TWA= 1000ppm
Exposure Controls:	Standard eye and skin protection for laboratory
	chemical safety is recommended. Use in well
	ventilated area.



### 9.0 Physical and chemical properties

pH:	3.8 - 4.2
Boiling point:	Not Determined
Flash point:	> 200° F, > 93.3° C
Flammability:	US NFPA/HMIS Flammability rating = 1
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Vapor Pressure:	Not applicable
Relative density:	Specific Gravity 1.0 to 1.2
Solubility:	Soluble in water
Partition coefficient:	Not determined
Viscosity:	Not determined
Vapor density:	>1 (air = 1.0)
Evaporation rate:	Not applicable
Other:	Not applicable

#### 10.0 Stability and reactivity

Stability:	Stable under normal storage conditions
Incompatibilities:	Strong oxidizers and bases
Thermal decomposition	Oxides of carbon/nitrogen/sulfur, water
products:	
Hazardous polymerization:	None

#### **11.0** Toxicological information

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

This ink formulation has not been tested.

#### 12.0 Ecological information

Ink Formulation: 96 Hour LC50 Static Acute Toxicity

LC50 < 400 mg/L Fathead minnow Survival (100mg/L) = 100% Trout Survival (10mg/L) = 100%

#### **13.0** Disposal considerations

Dispose in accordance with all applicable US Federal, state, local, and country laws.

### **14.0** Transportation information

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

UN Number: Not applicable Class: Not applicable



Proper Shipping Name: Not applicable Packing Group: Marine Pollutant: Not listed Special Precautions: None noted

Not applicable

#### 15.0 **Regulatory information**

US EPA TSCA Inventory:	All ingredients are listed or exempt.
US EPA TSCA 12(b):	Does not contain listed chemicals.
EU Notification:	All ingredients are listed on EINECS and/or ELINCS or exempt.
EU Hazard Label (1999/45/EC):	This product does not require a label according to EU Directive 1999/45/EC.

# 16.0 Other information

Date Prepared: HP-DMS Document Control Number:	August 19, 2002 09000de78022eca1-eng
Revision Information:	This document replaces all prior versions of the MSDS.
EU Risk (R) Phrase definitions:	R36/38: Irritating to eyes and skin R36/37/38: Irritating to eyes, respiratory system and skin.
Other Information:	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communication Standard (29CFR1910.1200).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS 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.