

1.0 Product and Company Identification

Identification of the preparation: C4836A - No 11 Cyan

Use of the preparation: Inkjet printing

Company Identification: Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, Oregon 97330-4239

United States

Emergency telephone number

Hewlett-Packard Health Effects Line:

1-800-457-4209 (USA and Canada)

503-494-7199 (USA direct)

Singapore: +001-800-332-13321

General information telephone

Local Contact Information:

number:

208-323-2551 (USA direct)

Ireland

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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	mixture	mixture	<4	Xi; R36/38
salt				
Alkyldicarboxylic acid	confidential	confidential	<4	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.

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.

<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. 1,5-Pentanediol: Contact with eyes and skin may cause

irritation. Harmful if swallowed.

<u>Tetraethylene glycol</u>: Contact with eyes and skin may cause irritation. Inhalation may result in respiratory

irritation.

Alkylquaternaryamine salt: Contact with skin or eyes

may result in irritation.

<u>Alkyldicarboxylic acid</u>: Contact with eyes and skin may result in irritation. Inhalation may result in respiratory

irritation.

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 1-800-457-4209 (USA and Canada) **Hewlett-Packard Health Effects** 503-494-7199 (USA direct)

Line: Singapore: +001-800-332-13321

Inhalation: Remove to fresh air. If symptoms persist, consult a

physician.

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 None known

Media:

Special Firefighting None known

Procedures:

Unusual fire and explosion No special hazards known

hazards:

Auto-ignition temperature: Not determined

Flashpoint (method): > 200° F, > 93.3° C (US EPA Method 1020)

Hazardous Combustion Refer to section 10

Products:

6.0 Accidental release measures

Spill or Leak Procedures: Standard eye and skin protection is recommended.

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 Keep out of the reach of children.

precautions: 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 LC50 = 461 mg/L Fathead minnow

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: Not applicable
Marine Pollutant: Not listed
Special Precautions: None noted

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: August 2, 2002

HP-DMS Document Control 09000de78022e1e4-eng

Number:

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.