1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

C4813A

Use of the preparation

Inkjet printing

CAS#

Mixture

Company identification

UAB "Hewlett-Packard" Seimyniskiu 21B

Vilnius LT-2051

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

(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551

Email hpcustomeringuiries@hp.com

2. HAZARDS IDENTIFICATION

Acute health effectsAny 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.

Tetraethylene glycol

Contact with skin may result in 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.

Tetraethylene glycol

Contact with eyes may cause irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldicarboxylic acid

Inhalation may result in respiratory irritation.

Tetraethylene glycol

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 diarrhoea.

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

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.

Physical hazards Not classified as a physical hazard. Not classified as a health hazard. **Health hazards**

Environmental hazards Not classified as an environmental hazard.

Other information This yellow ink is not classified according to EU Directive 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	> 60	231-791-2	
1,5-pentanediol	111-29-5	< 15	203-854-4	
2-pyrrolidone Alkyldicarboxylic acid	616-45-5 Proprietary	< 7.5 < 5	210-483-1 Proprietary	R36/38 R36/37/38
Substituted napthalenesulfonate salt #7 Tetraethylene glycol	Proprietary 112-60-7	< 5 < 5	Proprietary 203-989-9	R36/37/38

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

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

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

develops or persists.

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.

5. FIRE-FIGHTING MEASURES

Flash point and method > 93.3 °C (> 200 °F); Pensky-Martens Closed Cup Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Extinguishing media which must not be used for safety

reasons

None known.

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Unusual fire & explosion

hazards

None known.

Hazardous combustion

products

Refer to section 10.

Specific methods 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.

Containment procedures 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.

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

Additional exposure data Exposure limits have not been established for this product.

Personal protective equipment

GeneralUse personal protective equipment to minimize exposure to skin and eye. **Hygiene measures**Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Not available

Physical state Liquid.

Form Not available

Colour Yellow

Odour threshold Not available

PH 3.8 - 4.2

Boiling point Not determined

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

Flammability Not available.
Flammability limits in air, Not available

upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Vapour pressureNot determinedRelative densityNot availableSolubility in waterSoluble in waterPartition coefficientNot available

(n-octanol/water)



Viscosity > 2 cp

Vapour density > 1 (Air = 1.0)Not determined **Evaporation rate Melting point** Not available Not available Freezing point **Auto-ignition temperature** Not available

Specific gravity 1 - 1.2VOC < 3 %

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Materials to avoid Not available

Hazardous decomposition

products

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

carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous

polymerisation

Will not occur.

11. TOXICOLOGICAL INFORMATION

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

7732-18-5 Oral LD50 Rat: >90 mL/kg

Toxicology Data - Selected LD50s and LC50s

1,5-pentanediol 111-29-5 Oral LD50 Rat: 2 g/kg; Dermal LD50 Rabbit: >20000 mg/kg

Toxicology Data - Selected LD50s and LC50s

Alkyldicarboxylic acid Oral LD50 Rat: 2260 mg/kg Proprietary

Toxicology Data - Selected LD50s and LC50s

Tetraethylene glycol Oral LD50 Rat: 28900 µL/kg; Dermal LD50 Rabbit: 22570 mg/kg 112-60-7

Toxicology Data - Selected LD50s and LC50s

2-pyrrolidone 616-45-5 Oral LD50 Rat: 8 mg/kg

Further information This ink formulation has not been tested for toxicological effects.

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

12. ECOLOGICAL INFORMATION

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

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

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.

Waste from residues /

unused products

Not available

Not available Contaminated packaging

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14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

IATA

Proper shipping name not applicable
Hazard class not applicable

UN number None.
Packing group N/A
Packaging exceptions None.

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

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. 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.

Labelling

Contains 1,5-pentanediol, 2-pyrrolidone, Alkyldicarboxylic acid, Substituted napthalenesulfonate salt #7,

Tetraethylene glycol, Water

EC Label This product does not require a label according to EU Directive 1999/45/EC.

16. OTHER INFORMATION

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by

2001/58/EC.

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.

Issue date 13-Feb-2008

Revised sections 15. Regulatory information: Canadian regulations

15. Regulatory information: International regulations

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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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