



SAFETY DATA SHEET

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

Identification of the substance/preparation C9422A

Revision Date 29-Apr-2008

CAS # Mixture

Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN

Emergency telephone number

Poison Information Center 0207771 5307

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199

General information telephone number

1 344 36-0000

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email hpcustomerinquiries@hp.com

2. HAZARDS IDENTIFICATION

Classification R52/53

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

Skin contact

2-pyrrolidone
Contact with skin may result in irritation.

Ethyl alkyl diol
Contact with skin may result in mild irritation.

Substituted naphthalenesulfonate salt #13
Contact with skin may result in irritation.

Eye contact

2-pyrrolidone
Contact with eyes may result in irritation.

Arüülasopürasoolsulfonaadi sool 3
Contact with eyes may result in irritation.

Ethyl alkyl diol
Contact with eyes may result in mild irritation.

Substituted naphthalenesulfonate salt #13
Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Substituted naphthalenesulfonate salt #13
Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.



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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.

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information

This yellow ink is classified for environmental effects according to EU Directive 1999/45/EC with R52/R53.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	> 70	231-791-2	
Ethyl alkyldiol	Proprietary	< 15	Proprietary	
2-pyrrolidone	616-45-5	< 5	210-483-1	R36/38
Substituted naphthalenesulfonate salt #13	Proprietary	< 5	Proprietary	
Arüülasopürasoolsulfonaadi sool 3	Proprietary	< 2.5	Proprietary	

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); Setaflash closed-cup tester

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam.

Extinguishing media which must not be used for safety reasons

None known.

Unusual fire & explosion hazards

None known.

Hazardous combustion products

Refer to section 10.



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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.

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 limits

Netherlands

Components	CAS #	TWA (MAC)	STEL	Ceiling
Ethyl alkyldiol	Proprietary	5 mg/m ³	Not established	Not established

Sweden

Components	CAS #	TLV (LLV)	STEL (STV)	Ceiling (CLV)
Ethyl alkyldiol	Proprietary	5 mg/m ³	Not established	Not established

Additional exposure data 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Not available
Physical state Not available
Form Not available
Colour Yellow
Odour Not available
Odour threshold Not available
pH 7.3 - 8
Boiling point Not determined
Flash point > 93.3 °C (> 200 °F); Setaflash closed-cup tester
Flammability Not available.
Flammability limits in air, upper, % by volume Not available
Flammability limits in air, lower, % by volume Not determined
Vapour pressure Not determined
Relative density Not available
Solubility in water Soluble in water



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Partition coefficient (n-octanol/water)	Not available
Viscosity	> 2 cp
Vapour density	> 1 (air = 1.00)
Evaporation rate	Not determined
Melting point	Not available
Freezing point	Not available
Auto-ignition temperature	Not available
Specific gravity	1 - 1.2
VOC	< 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

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

Further information Complete toxicity data are not available for this specific formulation.. 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) = 97%
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

Contaminated packaging Not available

14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.



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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.
Labelling	
Contains	2-pyrrolidone, Ariüülasopürasoolsulfonaadi sool 3, Ethyl alkylidiol, Substituted naphthalenesulfonate salt #13, Water
R-phrase(s)	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US
List of relevant R phrases	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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	29-Apr-2008
Revised sections	3. Hazards identification: Routes of exposure 3. Hazards identification: Other information



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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