



Safety Data Sheet

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

Identification of the substance/preparation	CD973 Series
Use of the preparation	Inkjet printing
Revision date	20-Nov-2009
CAS #	Mixture
Company identification	Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 1 344 36-0000 Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

Classification	R52/53
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.
Skin contact	<i>1,5-pentanediol</i> Contact with skin may result in irritation. <i>Aliphatic diol</i> Contact with skin may result in irritation. <i>Ethyl alkyl diol</i> Contact with skin may result in mild irritation. <i>Metal nitrate #2</i> Contact with skin may result in irritation. <i>Pyridine azo dye</i> May cause sensitization by skin contact.
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation. <i>Aliphatic diol</i> Contact with eyes may result in irritation. <i>Ethyl alkyl diol</i> Contact with eyes may result in mild irritation. <i>Metal nitrate #2</i> Contact with eyes may result in irritation. <i>Pyridine azo dye</i> Contact with eyes may result in irritation.
Inhalation	<i>Aliphatic diol</i> Inhalation may result in respiratory irritation. <i>Metal nitrate #2</i> Inhalation may result in respiratory irritation.
Ingestion	<i>Metal nitrate #2</i> Contains nitrate salts, may cause methemoglobinemia.



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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

Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitisation reaction.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	< 80	231-791-2	
Aliphatic diol	Proprietary	< 15	Proprietary	
Metal nitrate #2	Proprietary	< 5	Proprietary	Xi, O, R36/37/38, 8
Pyridine azo dye	Proprietary	< 5	Proprietary	Xi, N, R43, 51/53
1,5-pentanediol	111-29-5	< 2.5	203-854-4	
2-Pyrrolidinone, 1-dodecyl-	2687-96-9	< 2.5	403-730-1	C, Xi, N, R43, 50, 53, 34
Ethyl alkyldiol	Proprietary	< 2.5	Proprietary	
Polycyclic Sulfonic Acid, TMA salt	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

Move to fresh air. If symptoms persist, get medical attention.

Skin contact

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

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

CO₂, water, dry chemical, or 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.

Specific methods

None established.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear appropriate personal protective equipment.



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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

Occupational exposure limits

Sweden

Components	Type	Value
Ethyl alkyldiol (Proprietary)	TWA	5 mg/m3

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 Liquid.
Form Not available.
Color Magenta/Red/Purple
Odor Not available.
Odour threshold Not available.
pH 7.2 - 7.4
Boiling point Not determined
Flash point > 93.3 °C (> 200 °F); Pensky-Martens Closed Cup
Flammability Not available.
Flammability limits in air, upper, % by volume Not available.
Flammability limits in air, lower, % by volume Not determined
Vapor pressure Not determined
Relative density Not available.
Solubility (water) Soluble in water
Partition coefficient (n-octanol/water) Not available.
Viscosity > 2 cp
Vapor density > 1 (air = 1.0)
Evaporation rate Not determined
Melting point Not available.
Freezing point Not available.
Auto-ignition temperature Not determined
Specific gravity 1 - 1.2
VOC < 3 %

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.



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Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization	Did not cause sensitization on laboratory animals. (OECD 429)
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 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%
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	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 . Dispose of in compliance with federal, state, and local regulations.
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14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Proper shipping name	Not applicable
Hazard class	Not applicable
UN number	None
Packing group	N/A
Packaging exceptions	None
Packaging non bulk	None
Labels required	None

General Not a dangerous good 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.

Labeling

Contains	1,5-pentandiol, 2-Pyrrolidinone, 1-dodecyl-, Aliphatic diol, Ethyl alkyldiol, Metal nitrate #2, Polycyclic Sulfonic Acid, TMA salt, Pyridine azo dye, Water
R-phrase(s)	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

EC Label This product does not require a label according to EU Directive 1999/45/EC.
Contains pyridine azo dye. May produce an allergic reaction.



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16. OTHER INFORMATION

Manufacturer information

Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

List of relevant R phrases

R8 Contact with combustible material may cause fire.
R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.
R50 Very toxic to aquatic organisms.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 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

20-Nov-2009

This data sheet contains changes from the previous version in section(s):

TOXICOLOGICAL INFORMATION: Further information
TRANSPORT INFORMATION: General

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