

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

CD973 Series

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 03-Oct-2013

Version number

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Inkjet printing Uses advised against None known.

Company identification Hewlett-Packard, Ltd.

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R52/53

Emergency overview Contact with skin and eyes may result in irritation.

Causes skin irritation.

Hazard summary

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

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

Specific hazards Not available. Main symptoms Not available.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: 1,5-pentanediol, 2-pyrrolidone, 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.

Authorization number Not available. Supplemental label Not applicable.

information

Material name: CD973 Series SDS UK 1/8

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water		> 65	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				
Aliphatic diol		< 15	Proprietary 211-074-0	-	-	
Classification:	DSD:	-				
	CLP:	-				
Metal nitrate # 2		< 5	Proprietary 233-826-7	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H319)			
Pyridine azo dye		< 5	Proprietary -	-	-	
Classification:	DSD:	Xi;R36, R43, N;F	R51/53			
	CLP:			, Aquatic Chronic 2;H411		
1,5-pentanediol		< 2.5	111-29-5 203-854-4	-	-	
Classification:	DSD:	-				
	CLP:	-				
2-pyrrolidone		<2.5	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H319)			
Ethyl alkyldiol		< 2.5	Proprietary 201-074-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
Polycyclic Sulfonic Acid,	TMA salt	< 2.5	Proprietary -	-	-	
Classification:	DSD:	-				
	CLP:					

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.

SECTION 4: First aid measures

General information Not available.

Material name: CD973 Series SDS UK Version No.: 01 Print date: 03-Oct-2013

4.1. Description of 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.

4.2. Most important symptoms and effects, both

acute and delayed

Not available.

4.3. Indication of any immediate medical attention

and special treatment

needed

No notes to physicians.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

CO2, water, dry chemical, or foam

media

Unsuitable extinguishing

None known.

media

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

procedures

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Not available.

6.2. Environmental

precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Not available.

6.4. Reference to other

Not available.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep away from excessive heat or cold.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

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Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment to minimize exposure to skin and eye.

Eye/face protection Not available.

Skin protection

- Hand protection Not available. - Other Not available. **Respiratory protection** Not available. Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Not available. Color Magenta Odor Not available. **Odor threshold** Not available. 7.2 - 7.4Melting point/freezing point Not available.

Initial boiling point and

boiling range

Not determined

> 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup Flash point

Evaporation rate Not determined Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Not determined

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Not determined Vapor pressure **Relative density** Not available. Soluble in water Solubility(ies) **Partition coefficient** Not available.

(n-octanol/water)

Not determined **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** >= 2 cp**Explosive properties** Not available.

Oxidizing properties Not determined

9.2. Other information

VOC (Weight %) < 238 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

Material name: CD973 Series SDS UK 10.6. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Not available. **Inhalation** Not available. Skin contact Not available. **Eve contact** Not available. Not available.

11.1. Information on toxicological effects

Acute toxicity

Symptoms

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50 Guinea pig 6500 mg/kg Rat 6500 mg/kg

Aliphatic diol (CAS Proprietary)

Acute

Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat 3730 mg/kg

Other

LD50 Mouse 1738 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Not available. Not available.

Respiratory sensitization

Not available. Skin sensitization Not available.

Germ cell mutagenicity Not available. Carcinogenicity Not available. Reproductive toxicity Not available.

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard Mixture versus substance Not available.

information

Not available.

Other information

Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential

health effects and Section 4 for first aid measures.

SECTION 12: Ecological information

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

12.1. Toxicity

Product Test Results Species

CD973 Series (CAS Mixture)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

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Components Species Test Results 2-pyrrolidone (CAS 616-45-5) **Aquatic** EC50 Water flea (Daphnia pulex) Crustacea 13.21 mg/l, 48 hours Ethyl alkyldiol (CAS Proprietary) Crustacea EC50 Daphnia 102, 48 Hours Fish LC50 Fish 1000, 96 Hours **Aquatic** Crustacea EC50 Water flea (Daphnia magna) 10330 - 16360 mg/l, 48 hours LC50 Fish Bleak (Alburnus alburnus) > 10000 mg/l, 96 hours 12.2. Persistence and Not available. degradability 12.3. Bioaccumulative Not available. potential **Partition coefficient** n-octanol/water (log Kow) 2-pyrrolidone -0.85Aliphatic diol -0.106**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available. 12.5. Results of PBT Not a PBT or vPvB substance or mixture. and vPvB assessment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

12.6. Other adverse effects

Residual wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

Not available.

DisposalMP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling methods/information 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.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I $\,$

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

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Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

Other 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.

National regulations 15.2. Chemical Safety

Not available.

Assessment

Not available.

SECTION 16: Other information

References Not available.

Full text of any statements or **R-phrases and H-statements**

R36 Irritating to eyes.

R43 May cause sensitization by skin contact.

under Sections 2 to 15

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.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Safety 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.

Material name: CD973 Series SDS UK

Revision information Product and Company Identification: Synonyms

Not available.

Composition / Information on Ingredients: Ingredients
Fire Fighting Measures: Fire & Explosion Properties

Physical & Chemical Properties: Physical & Chemical Properties

Ecological Information: Ecotoxicity Regulatory Information: Safety Phrases

HazReg Data: Europe - EU

Training information

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may not meet regulatory requirements in other countries.

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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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