



# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name or designation of the mixture** CD972 Series  
**Registration number** N/A  
**Synonyms** None.  
**Issue date** 03-Oct-2013  
**Version number** 01

### 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 (Schweiz/Suisse/Svizzera) GmbH  
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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

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

#### Hazard summary

**Physical hazards** Not classified for physical hazards.  
**Health hazards** Not classified as a health hazard.  
**Environmental hazards** Not classified for hazards to the 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-(2-hydroxyethyl)-2-pyrrolidone, 1,5-pentanediol, Aliphatic diol, Ethyl alkyl diol, Metal nitrate # 2, Phenylenediamine derivative, Substituted phthalocyanine salt #5, Water

**R-phrases(s)** Not available.

**S-phrases(s)**  
S2 Keep out of the reach of children.

**Authorization number** Not available.

**Supplemental label information** Not applicable.

### 2.3. Other hazards

This Cyan ink is not classified according to EU Directive 1999/45/EC. 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

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	> 65	7732-18-5 231-791-2	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> -				
1,5-pentanediol	< 7.5	111-29-5 203-854-4	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> -				
1-(2-hydroxyethyl)-2-pyrrolidone	< 5	3445-11-2 222-359-4	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> -				
Ethyl alkyl diol	< 5	Proprietary 201-074-9	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> -				
Metal nitrate # 2	< 5	Proprietary 233-826-7	-	-	
<b>Classification:</b>	<b>DSD:</b> Xi;R36 <b>CLP:</b> Eye Irrit. 2;H319				
Substituted phthalocyanine salt #5	< 5	Proprietary -	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> Eye Dam. 1;H318				
Aliphatic diol	< 2.5	Proprietary 211-074-0	-	-	
<b>Classification:</b>	<b>DSD:</b> - <b>CLP:</b> -				
Phenylenediamine derivative	< 2.5	Proprietary -	-	-	
<b>Classification:</b>	<b>DSD:</b> Xi;R37 <b>CLP:</b> STOT SE 3;H335				

#### 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.

#### 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.

<b>Eye contact</b>	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.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Not available.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	No notes to physicians.

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## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Not available.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Unsuitable extinguishing media</b>	None known.
<b>5.2. Special hazards arising from the substance or mixture</b>	Not available.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Not available.
<b>Special fire fighting procedures</b>	Not available.
<b>Hazardous combustion products</b>	Refer to section 10.

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## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate personal protective equipment.
<b>For emergency responders</b>	Not available.
<b>6.2. Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>6.3. Methods and material for containment and cleaning up</b>	Not available.
<b>6.4. Reference to other sections</b>	Not available.

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## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep out of the reach of children. Keep away from excessive heat or cold.
<b>7.3. Specific end use(s)</b>	Not available.

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## SECTION 8: Exposure controls/personal protection

<b>8.1. Control parameters</b>	
<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Not available.
<b>Derived no-effect level (DNEL)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	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.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Not available.

**Form** liquid

**Color** Cyan

**Odor** Not available.

**Odor threshold** Not available.

**pH** 7.2 - 7.4

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not determined

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

**Evaporation rate** Not determined

**Flammability (solid, gas)** Not applicable.

#### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not Determined

**Flammability limit - upper (%)** Not available.

**Vapor pressure** Not determined

**Relative density** Not available.

**Solubility(ies)** Soluble in water

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not Determined

**Decomposition temperature** Not available.

**Viscosity** Not applicable.

**Explosive properties** Not available.

**Oxidizing properties** Not determined

### 9.2. Other information

**Specific gravity** Not determined

**VOC (Weight %)** < 271 g/l

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## 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.

**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.

**Eye contact** Not available.

**Symptoms** Not available.

**11.1. Information on toxicological effects****Acute toxicity**

Components	Species	Test Results
Aliphatic diol (CAS Proprietary)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 10000 mg/kg
<i>Oral</i>		
LD50	Rat	3730 mg/kg
<i>Other</i>		
LD50	Mouse	1738 mg/kg
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	Not available.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	This ink formulation has not been tested for toxicological effects. 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%  
Static acute toxicity (trout), survival (10 mg/L) = 100%

**12.1. Toxicity**

Product	Species	Test Results
CD972 Series (CAS Mixture)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 463 mg/l, 96 hours
Components	Species	Test Results
Ethyl alkyl diol (CAS Proprietary)		
Crustacea	EC50	Daphnia 102, 48 Hours
Fish	LC50	Fish 1000, 96 Hours

Components	Species		Test Results
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10330 - 16360 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours
12.2. Persistence and degradability	Not available.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow)			
Aliphatic diol		-0.106	
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	Not available.		
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.		
12.6. Other adverse effects	Not available.		

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.
<b>Disposal methods/information</b>	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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .

## 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

Not listed.

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

Not listed.

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

Not listed.

##### 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**

Not listed.

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

Not listed.

**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 amended**

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**

Not regulated.

**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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

#### **Labeling**

##### **EC label**

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

##### **Other information**

Switzerland VOC incentive tax - Contains >3% total VOCs but does not contain VOCs which are subject for taxation.

##### **National regulations**

Not available.

##### **15.2. Chemical Safety Assessment**

Not available.

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### **SECTION 16: Other information**

#### **References**

Not available.

#### **Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

R36 Irritating to eyes.  
R37 Irritating to respiratory system.

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### **Safety phrase(s)**

S2 Keep out of the reach of children.

#### **Revision information**

Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Ingredients  
Fire Fighting Measures: Fire & Explosion Properties  
Physical & Chemical Properties: Physical & Chemical Properties  
Ecological Information: Ecotoxicity  
Transport Information: Product Shipping Name/Packing Group  
Regulatory Information: Safety Phrases  
HazReg Data: Europe - EU

#### **Training information**

Not available.

**Disclaimer**

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**Explanation of abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds