



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**Product name** CH172Series

**Recommended use of the chemical and restrictions on use**

**Intended use** Inkjet printing.

**Company identification** Hewlett-Packard Japan, Ltd.  
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(Toll-free within the US) 1-800-457-4209  
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(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com  
Poison Information Centre 0120-50-3024

## 2. Hazards identification

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

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

**Environmental hazards** Not classified as an environmental hazard.

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

**Other hazards** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Components	CAS #	Percent
2-pyrrolidone	616-45-5	<15
Dyes	Proprietary	1-5
Glycerol Ethoxylate	31694-55-0	<5
1,2-Hexanediol	6920-22-5	<3
Isopropyl alcohol	67-63-0	<2.5
Diethanolamine	111-42-2	<2
Glycerol	56-81-5	<2
Minor Ingredients		<1
Water	7732-18-5	Balance

**Synonym(s)** ColorSpan 0900700-105

## 4. First aid measures

**If inhaled** In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, get medical attention.

**If on skin** In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.  
Wash clothing separately before reuse.

**If in eyes** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.

**If swallowed** Rinse mouth out with water. Give several glasses of water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If symptoms persist, get medical attention.

**Most important symptoms and effects** No data available

## 5. Fire-fighting measures

**Flash point** Not flammable  
**Extinguishing media** Use any media suitable for the surrounding fires.  
**Extinguishing media to avoid** None.  
**Special fire fighting procedures** Wear suitable protective equipment.  
**Protection of fire-fighters** No data available.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency measures** Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye.  
**Environmental precautions** Do not flush into surface water or sanitary sewer system.  
**Clean-up methods and materials and containment measures** Clean-up methods - small spillage

## 7. Handling and storage

### Handling

**Technical measures** Not available.  
**Local and general ventilation** Not available.  
**Precautions** Not available.  
**Safe handling advice** Avoid contact with skin, eyes and clothing.

### Storage

**Technical measures** Keep out of the reach of children. Keep away from excessive heat or cold.  
**Suitable storage conditions** Not available.  
**Incompatible products** No data.  
**Safe packaging materials** Not available.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### Japan. OELs - ISHL. (Workplace Environment Assessment Standards)

Components	Type	Value
ISOPROPYL ALCOHOL (CAS 67-63-0)	TLV	200 ppm

#### Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits)

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	Ceiling	980 mg/m <sup>3</sup>
		400 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m <sup>3</sup>	Inhalable fraction and vapor.
Glycerol (CAS 56-81-5)	TWA	10 mg/m <sup>3</sup>	Mist.
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	

### Recommended monitoring procedures

**Additional exposure data** Not available.

**Personal protective equipment**

<b>Respiratory protection</b>	Under normal conditions, respirator is not normally required. Provide adequate ventilation.
<b>Hand protection</b>	Not available.
<b>Eye protection</b>	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
<b>Skin and body protection</b>	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

**9. Physical and chemical properties****Appearance**

<b>Physical state</b>	Liquid.
<b>Form</b>	Aqueous solution.
<b>Color</b>	Cyan
<b>Odor</b>	slight solvent
<b>Odor threshold</b>	No information available.
<b>pH</b>	7 - 9
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	Not flammable
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Other data</b>	
<b>Chemical family</b>	Water/Glycol/Dye Blend
<b>VOC (Weight %)</b>	161.2 g/L

**10. Stability and reactivity**

<b>Stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Avoid high temperatures.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None.

**11. Toxicological information**

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.

**Skin contact** Not available.  
**Eye contact** Not available.  
**Symptoms** Not available.

**Acute toxicity**

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

**Acute***Oral*

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

Diethanolamine (CAS 111-42-2)

**Acute***Dermal*

LD50	Rabbit	11.9 ml/kg
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*Oral*

LD50	Rat	710 mg/kg
		1.82 g/kg

*Other*

LD50	Mouse	2300 mg/kg
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Isopropyl alcohol (CAS 67-63-0)

**Acute***Dermal*

LD50	Rabbit	12800 mg/kg
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*Oral*

LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
		4.5 g/kg
	Rabbit	6410 mg/kg
		5.03 g/kg
	Rat	5045 mg/kg
		4.7 g/kg

*Other*

LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg

**Carcinogenicity****ACGIH Carcinogens**

2-PROPANOL (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

DIETHANOLAMINE, INHALABLE FRACTION AND VAPOR (CAS 111-42-2)

A3 Confirmed animal carcinogen with unknown relevance to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Diethanolamine (CAS 111-42-2)

2B Possibly carcinogenic to humans.

**Specific target organ toxicity - single exposure** No data available.**Specific target organ toxicity - repeated exposure** No data available**Other information** Complete toxicity data are not available for this specific formulation

## 12. Ecological information

### Ecotoxicological data

Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	13.21 mg/l, 48 hours
Diethanolamine (CAS 111-42-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Ceriodaphnia dubia</i> )	61.8 - 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	100 mg/l, 96 hours
Glycerol (CAS 56-81-5)			
<b>Aquatic</b>			
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	51000 - 57000 mg/l, 96 hours
Isopropyl alcohol (CAS 67-63-0)			
<i>Acute</i>			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
<b>Aquatic</b>			
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	> 1400 mg/l, 96 hours
<i>Acute</i>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9460 mg/l, 96 hours

**Ecotoxicity** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### Bioaccumulation

#### Bioaccumulative potential

##### Octanol/water partition coefficient log Kow

2-pyrrolidone	-0.85
Diethanolamine	-1.43
Glycerol	-1.76
Isopropyl alcohol	0.05

**Mobility in soil** No data available.

## 13. Disposal considerations

**Contaminated packaging** No special precautions.

**Local disposal regulations** Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

## 14. Transport information

### International regulations

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

## 15. Regulatory information

### Industrial Safety and Health Act

#### Specified substances regulation

##### Class 1 designated chemical substances

Not regulated.

**Specified substances regulation****Class 2 designated chemical substances**

Not regulated.

**Class 3 designated chemical substances**

Not regulated.

**Organic solvent regulation****Class 1 organic solvents**

Not regulated.

**Class 2 organic solvents**

ISOPROPYL ALCOHOL

**Class 3 organic solvents**

Not regulated.

**Notifiable substances**

DIETHANOLAMINE

0 - 2.5 %

PROPYL ALCOHOL

0 - 2.5 %

**Labeling substances**

ISOPROPYL ALCOHOL

0 - 2.5 %

**Poisonous and Deleterious Substances Control Act****Specified poisonous substances**

Not regulated.

**Poisonous substances**

Not regulated.

**Deleterious substances**

Not regulated.

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.****Class I specified chemical substances**

Not regulated.

**Class II specified chemical substances**

Not regulated.

**Monitoring chemical substances**

Not regulated.

**Priority Assessment Chemical Substances (PACs)**

Not regulated.

**Reporting Exempted Substances**

1,2,3-Propanetriol

**Law concerning Pollutant Release and Transfer Register****Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 2 substances (substance name, ordinance number and content)**

Not regulated.

**Fire Service Act**

Not regulated.

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule**

Not regulated.

**Air Law, Enforcement Rule**

Not regulated.

**Explosives Control Act**

Not regulated.

**High Pressure Gas Safety Act**

Not regulated.

**Act on Prevention of Marine Pollution and Maritime Disaster**

WATER

Category: Other Substances

DIETHANOLAMINE

Category: Y

GLYCEROL

Category: Z

ISOPROPYL ALCOHOL

Category: Z

GLYCEROL, PROPOXYLATED/ETHOXYLATED MIXTURE

Category: Z

GLYCEROL, PROPOXYLATED/ETHOXYLATED MIXTURE

Category: Other Substances

**Waste Management and Public Cleansing Act**

Not regulated.

**16. Other information**

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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