



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**Product name** CH180Series

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

**Intended use** Inkjet printing.

**Company identification** Hewlett-Packard Japan, Ltd.  
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Hewlett-Packard health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-503-494-7199  
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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.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Components	CAS #	Percent
Diethylene glycol	111-46-6	< 7.5
Polyethylene glycol	25322-68-3	< 7.5
Glycerol Ethoxylate	31694-55-0	< 5
Pigment	Proprietary	< 2.5
5-Chloro-2-methyl-4-isothiazol-3-one	26172-55-4	< 1
Styrene/Acrylic Polymer	Proprietary	< 1
Triethanolamine	102-71-6	< 1
Wetting Agent PG	Proprietary	< 1

**Synonym(s)** ColorSpan 0900768-002

## 4. First aid measures

**If inhaled** In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical attention, if needed.

**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. Do not induce vomiting. If symptoms persist, get medical attention.

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

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## 5. Fire-fighting measures

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

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## 6. Accidental release measures

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

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## 7. Handling and storage

### Handling

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

### Storage

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

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## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m <sup>3</sup>

### Recommended monitoring procedures

**Additional exposure data** Not available.

**Engineering measures** Provide adequate ventilation.

### Personal protective equipment

**Respiratory protection** Under normal conditions, respirator is not normally required. Provide adequate ventilation.

**Hand protection** Not available.

**Eye protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

**Skin and body protection** Use of butyl rubber or nitrile gloves is recommended. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

### Hygiene measures

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.

Laundry contaminated clothing before reuse.

### Personal protective equipment

**General** Eye wash fountain and emergency showers are recommended.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Aqueous solution.
<b>Color</b>	Magenta
<b>Odor</b>	Not significant.
<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>	Not available.
<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>	< 140 g/L

## 10. Stability and reactivity

<b>Stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid high temperatures.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

## 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.

### Acute toxicity

Components	Species	Test Results
Diethylene glycol (CAS 111-46-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	11890 mg/kg
<i>Oral</i>		
LD50	Cat	3300 mg/kg

Components	Species	Test Results
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
		14 g/kg
	Mouse	23700 mg/kg
		13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
		15.6 g/kg
<i>Other</i>		
LD50	Mouse	22500 mg/kg
		9.6 g/kg
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg
Triethanolamine (CAS 102-71-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 20000 mg/kg
<i>Oral</i>		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
<i>Other</i>		
LD50	Mouse	1450 mg/kg
<b>Carcinogenicity</b>	No data available.	
<b>Specific target organ toxicity - single exposure</b>	No data available.	
<b>Specific target organ toxicity - repeated exposure</b>	No data available.	
<b>Other information</b>	Complete toxicity data are not available for this specific formulation	

## 12. Ecological information

Ecotoxicological data			
Components		Species	Test Results
Diethylene glycol (CAS 111-46-6)			
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	> 32000 mg/l, 96 hours
Polyethylene glycol (CAS 25322-68-3)			
<b>Aquatic</b>			
Fish	LC50	Atlantic salmon ( <i>Salmo salar</i> )	> 1000 mg/l, 96 hours
Triethanolamine (CAS 102-71-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Ceriodaphnia dubia</i> )	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	10610 - 13010 mg/l, 96 hours
<b>Ecotoxicity</b>	None known.		
<b>Aquatic toxicity</b>	No information available.		
<b>Bioaccumulation</b>			
<b>Bioaccumulative potential</b>			
<b>Octanol/water partition coefficient log Kow</b>			
Triethanolamine			-1

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**Mobility in soil** No data available.

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### 13. Disposal considerations

**Contaminated packaging** No special precautions.

**Local disposal regulations** Dispose of in compliance with federal, state, and local regulations.

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### 14. Transport information

#### International regulations

##### IATA

Not regulated as dangerous goods.

##### IMDG

Not regulated as dangerous goods.

##### ADR

Not regulated as dangerous goods.

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### 15. Regulatory information

#### Industrial Safety and Health Act

##### Specified substances regulation

###### Class 1 designated chemical substances

Not regulated.

###### 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

Not regulated.

###### Class 3 organic solvents

Not regulated.

##### Notifiable substances

Not regulated.

##### Labeling substances

Not regulated.

#### 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

Not regulated.

#### 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**

DIETHYLENE GLYCOL	Category: Z
POLYETHYLENE GLYCOL	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

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.

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Palo Alto, California 94304-1112 US  
Product Information 1-800-925-0563

### 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