

C6179Series[Y][3]-MSDS\_MALAYSIA-English-19.pdf

C6179Series[M][3]-MSDS\_MALAYSIA-English-19.pdf

C6179Series[C][3]-MSDS\_MALAYSIA-English-20.pdf



# SAFETY DATA SHEET

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

**Identification of the substance/preparation** C6179Series[Y][3]  
**Issue date** 14-Jun-2015  
**Revision date** 28-Jul-2016  
**Version #** 04  
**Recommended use** Inkjet printing  
**Company identification** HP PPS Malaysia Sdn. Bhd.  
Ground Floor Customer Service, Block B, No.12  
Jalan Gelenggang, HP Towers, Bukit Damansara  
Kuala Lumpur, Wilayah Persekutuan Kuala Lump, Malaysia 50490  
Telephone 60-3-7953-3333  
  
HP Inc. health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP Inc. Customer Care Line  
(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com

## 2. HAZARDS IDENTIFICATION

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**GHS label elements**  
**Signal word** None.  
**Hazard symbols** None.  
**Hazard statement** None.  
**Precautionary statement**  
**Prevention** None.  
**Response** None.  
**Storage** None.  
**Disposal** None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Water	7732-18-5	70-80
metal nitrate # 1	Proprietary	<7.5
2-pyrrolidone	616-45-5	<5
arylazopyrazolesulfonate salt # 1	Proprietary	<5
Diethylene glycol	111-46-6	<5
Alkyldiol ethoxylate	Proprietary	<2.5

**Composition comments** This ink supply contains an aqueous ink formulation.

## 4. FIRST AID MEASURES

**Inhalation** Remove to fresh air. If symptoms persist, get medical attention.  
**Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.  
**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.

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**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	>= 200.0 °F (>= 93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	None known.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

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**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

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**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<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>	
<b>Additional exposure data</b>	Exposure limits have not been established for this product.
<b>Engineering measures to reduce exposure</b>	Use in a well ventilated area.
<b>Personal protective equipment</b>	
<b>Skin and body protection</b>	Not available.
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Color</b>	Yellow
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.2 - 6.8
<b>Vapor pressure</b>	Not determined
<b>Boiling point</b>	Not determined
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Soluble in water
<b>Specific gravity</b>	Not available.
<b>Flash point</b>	>= 200.0 °F (>= 93.3 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not determined
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 89.6 g/l
<b>Evaporation rate</b>	Not determined
<b>Viscosity</b>	>= 2 cp
<b>Other data</b>	
<b>Oxidizing properties</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Toxic to reproduction</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Further information</b>	Complete toxicity data are not available for this specific formulation

<b>Toxicological data</b>		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
arylazopyrazolesulfonate salt # 1 (CAS Proprietary)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Oral</i>		
LD50	Rat	81 mg/kg
<b>Chronic</b>		
<i>Oral</i>		
NOAEL	Rat	1 mg/kg
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
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
	Mouse	13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
<i>Other</i>		
LD50	Mouse	9.6 g/kg

Components	Species	Test Results
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity** Static acute toxicity (trout), survival (100 mg/L) = 23%  
Static acute toxicity (trout), survival (10 mg/L) = 93%

### Ecotoxicological data

Product	Species	Test Results
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C6179Series[Y][3]

#### Aquatic

##### Acute

Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	< 400 mg/l, 96 hours
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Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

#### Aquatic

Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	13.21 mg/l, 48 hours
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arylazopyrazolesulfonate salt # 1 (CAS Proprietary)

#### Aquatic

Algae	IC50	Algae	<= 100 mg/l, 72 Hours
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Crustacea	EC50	Daphnia	30 mg/l, 48 Hours
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Fish	LC50	Fish	1000 mg/l, 96 Hours
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Diethylene glycol (CAS 111-46-6)

#### Aquatic

Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	> 32000 mg/l, 96 hours
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**Environmental effects** Not available.

### Bioaccumulation

#### Bioaccumulative potential

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

2-pyrrolidone	-0.85
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## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 <http://www.hp.com/recycle>.

## 14. TRANSPORT INFORMATION

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### ADR

Not regulated as dangerous goods.

**Further information** Not a dangerous good under 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.

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## 16. OTHER INFORMATION

<b>Disclaimer</b>	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.
<b>Prepared by</b>	HP Chemical Compliance & Toxicology Department
<b>Issue date</b>	14-Jun-2015
<b>Revision date</b>	28-Jul-2016
<b>Version #</b>	04
<b>Manufacturer information</b>	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

### 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



# SAFETY DATA SHEET

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

**Identification of the substance/preparation** C6179Series[M][3]  
**Issue date** 14-Jun-2015  
**Revision date** 26-Jul-2016  
**Version #** 04  
**Recommended use** Inkjet printing  
**Company identification** HP PPS Malaysia Sdn. Bhd.  
Ground Floor Customer Service, Block B, No.12  
Jalan Gelenggang, HP Towers, Bukit Damansara  
Kuala Lumpur, Wilayah Persekutuan Kuala Lump, Malaysia 50490  
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(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com

## 2. HAZARDS IDENTIFICATION

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**GHS label elements**  
**Signal word** None.  
**Hazard symbols** None.  
**Hazard statement** None.  
**Precautionary statement**  
**Prevention** None.  
**Response** None.  
**Storage** None.  
**Disposal** None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Water	7732-18-5	60-70
1,5-pentanediol	111-29-5	<10
2-pyrrolidone	616-45-5	<7.5
magnesium nitrate hexahydrate	10377-60-3	<7.5
Magenta colorant	Proprietary	<5
Alkyldiol ethoxylate	Proprietary	<2.5

**Composition comments** This ink supply contains an aqueous ink formulation.

## 4. FIRST AID MEASURES

**Inhalation** Remove to fresh air. If symptoms persist, get medical attention.  
**Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.  
**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.

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**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	None known.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

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**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

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**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<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>	
<b>Additional exposure data</b>	Exposure limits have not been established for this product.
<b>Engineering measures to reduce exposure</b>	Use in a well ventilated area.
<b>Personal protective equipment</b>	
<b>Skin and body protection</b>	Not available.
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Color</b>	Magenta
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.2 - 6.8
<b>Vapor pressure</b>	Not determined
<b>Boiling point</b>	Not determined
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Soluble in water
<b>Specific gravity</b>	Not available.
<b>Flash point</b>	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not determined
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 168 g/l
<b>Evaporation rate</b>	Not determined
<b>Viscosity</b>	>= 2 cp
<b>Other data</b>	
<b>Oxidizing properties</b>	Not determined



## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Toxic to reproduction</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Further information</b>	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.

### Toxicological data

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg

## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%
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### Ecotoxicological data

Product	Species	Test Results
C6179Series[M][3]		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) < 400 mg/l, 96 hours

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 13.21 mg/l, 48 hours

<b>Environmental effects</b>	Not available.
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### Bioaccumulation

#### Bioaccumulative potential

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

2-pyrrolidone	-0.85
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### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 <http://www.hp.com/recycle>.

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### 14. TRANSPORT INFORMATION

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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### 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.

---

### 16. OTHER INFORMATION

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

**Prepared by** HP Chemical Compliance & Toxicology Department

**Issue date** 14-Jun-2015

**Revision date** 26-Jul-2016

**Version #** 04

**Manufacturer information** HP Inc.  
1501 Page Mill Road  
Palo Alto, CA 94304-1112 US  
Direct 1-650-857-5020

## 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



# SAFETY DATA SHEET

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

**Identification of the substance/preparation** C6179Series[C][3]  
**Issue date** 14-Jun-2015  
**Revision date** 26-Jul-2016  
**Version #** 03  
**Recommended use** Inkjet printing  
**Company identification** HP PPS Malaysia Sdn. Bhd.  
Ground Floor Customer Service, Block B, No.12  
Jalan Gelenggang, HP Towers, Bukit Damansara  
Kuala Lumpur, Wilayah Persekutuan Kuala Lump, Malaysia 50490  
Telephone 60-3-7953-3333  
  
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(Direct) 1-760-710-0048  
HP Inc. Customer Care Line  
(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com

## 2. HAZARDS IDENTIFICATION

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**GHS label elements**  
**Signal word** None.  
**Hazard symbols** None.  
**Hazard statement** None.  
**Precautionary statement**  
**Prevention** None.  
**Response** None.  
**Storage** None.  
**Disposal** None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Water	7732-18-5	60-70
1,5-pentanediol	111-29-5	<10
2-pyrrolidone	616-45-5	<7.5
magnesium nitrate hexahydrate	10377-60-3	<7.5
Alkyldiol ethoxylate	Proprietary	<2.5
Cyan colorant	Proprietary	<2.5
Substituted triphenylmethane salt #1	Proprietary	<2.5

**Composition comments** This ink supply contains an aqueous ink formulation.

## 4. FIRST AID MEASURES

**Inhalation** Remove to fresh air. If symptoms persist, get medical attention.  
**Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

**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.

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## 5. FIRE-FIGHTING MEASURES

**Flash point**  $\geq 200.0$  °F ( $\geq 93.3$  °C) Pensky-Martens Closed Cup

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Extinguishing media which must not be used for safety reasons** None known.

**Unusual fire & explosion hazards** None known.

**Specific methods** None established.

**Hazardous combustion products** Refer to section 10.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Wear appropriate personal protective equipment.

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

**Methods for cleaning up** Soak up with inert absorbent material.

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## 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**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**

**Additional exposure data** Exposure limits have not been established for this product.

**Engineering measures to reduce exposure** Use in a well ventilated area.

**Personal protective equipment**

**Skin and body protection** Not available.

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

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

**Physical state** Liquid.

**Color** Cyan

**Odor** Not available.

**Odor threshold** Not available.

**pH** 6.2 - 6.8

**Vapor pressure** Not determined

**Boiling point** Not determined

**Melting point/Freezing point** Not available.

**Solubility (water)** Soluble in water

**Specific gravity** Not available.

**Flash point**  $\geq 200.0$  °F ( $\geq 93.3$  °C) Pensky-Martens Closed Cup

**Flammability limits in air, upper, % by volume** Not available.

**Flammability limits in air, lower, % by volume** Not determined

**Auto-ignition temperature** Not available.

**VOC**  $< 168$  g/l

**Evaporation rate** Not determined

**Viscosity**  $\geq 2$  cp

**Other data**

<b>Oxidizing properties</b>	Not determined
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**10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous polymerization</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Substituted triphenylmethane salt #<@1> (CAS Proprietary)	3 Not classifiable as to carcinogenicity to humans.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Toxic to reproduction</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Further information</b>	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.

**Toxicological data**

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg

**12. ECOLOGICAL INFORMATION**

<b>Aquatic toxicity</b>	Static acute toxicity (trout), survival (100 mg/L) = 67% Static acute toxicity (trout), survival (10 mg/L) = 100%
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**Ecotoxicological data**

Product	Species	Test Results
C6179Series[C][3]		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) < 400 mg/l, 96 hours
<b>Components</b>	<b>Species</b>	<b>Test Results</b>

2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 13.21 mg/l, 48 hours
Cyan colorant (CAS Proprietary)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 50 - 100 mg/l, 48 Hours

Components	Species	Test Results
Fish	LC50 Coho salmon,silver salmon (Oncorhynchus kisutch)	332 mg/l, 96 hours
<b>Environmental effects</b>	Not available.	
<b>Bioaccumulation</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
2-pyrrolidone	-0.85	

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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> .
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### 14. TRANSPORT INFORMATION

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

#### Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

### 15. REGULATORY INFORMATION

<b>International regulations</b>	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.
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### 16. OTHER INFORMATION

<b>Disclaimer</b>	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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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<b>Manufacturer information</b>	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

## 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