

Q2291Series[B][3]-HP\_MSDS\_COLOMBIA-English-13.pdf

Q2291Series[C][3]-HP\_MSDS\_COLOMBIA-English-22.pdf

Q2291Series[M][3]-HP\_MSDS\_COLOMBIA-English-26.pdf



# SAFETY DATA SHEET

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

**Identification of the substance/preparation** Q2291Series[B][3]  
**Use of the substance/preparation** Inkjet printing  
**Issue date** 15-Jun-2015  
**Revision date** 26-Aug-2015  
**Version #** 02  
**CAS #** Mixture  
**Company identification** HP Colombia SAS  
Carrera 7 No 99-53 Torre B Pisos 7  
Bogota, Colombia  
Telephone (57) 1 639 0000  
  
HP health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP 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

### Classification of the substance or mixture

**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
Ethyl alkyldiol	Proprietary	< 15
2-pyrrolidone	616-45-5	< 7.5
Black dye 1	Proprietary	<5

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

## 4. 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.

---

**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , water, dry chemical, or 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.

---

**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.

---

**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.

---

**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.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Color</b>	Black.
<b>Odor</b>	Not available.
<b>pH</b>	8.4
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not determined
<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not determined
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.

<b>Viscosity</b>	>= 2 cp
<b>Other data</b>	
<b>Oxidizing properties</b>	Not determined
<b>VOC (Weight %)</b>	91 g/l

## 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>Other 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

### Ecotoxicological data

Product	Species	Test Results
Q2291Series[B][3] (CAS Mixture)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

Components	Species	Test Results
------------	---------	--------------

2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex) 13.21 mg/l, 48 hours
Ethyl alkyldiol (CAS Proprietary)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 102, 48 Hours
Fish	LC50	Fish 1000, 96 Hours

**Environmental effects** Not available.

**Persistence / degradability** Not available.

## Bioaccumulation

### Bioaccumulative potential

#### Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

### Aquatic toxicity

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

Static acute toxicity (trout), survival (10 mg/L) = 100%

### Mobility

Not available.

---

## 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

### Federal regulations

### 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.

#### Kyoto protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Stockholm Convention

Not applicable.

---

## 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

### Issue date

15-Jun-2015

### Revision date

26-Aug-2015

### Version #

02

### This data sheet contains changes from the previous version in section(s):

OTHER INFORMATION: Disclaimer

### Manufacturer information

HP  
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** Q2291Series[C][3]  
**Use of the substance/preparation** Inkjet printing  
**Issue date** 15-Jun-2015  
**Revision date** 26-Aug-2015  
**Version #** 02  
**CAS #** Mixture  
**Company identification** HP Colombia SAS  
Carrera 7 No 99-53 Torre B Pisos 7  
Bogota, Colombia  
Telephone (57) 1 639 0000  
  
HP health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP 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

### Classification of the substance or mixture

**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	75-85
Ethyl alkyldiol	Proprietary	< 15
2-pyrrolidone	616-45-5	< 7.5
Alkyldiol ethoxylate	Proprietary	< 2.5
Cyan colorant	Proprietary	< 2.5

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

## 4. 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.

---

## 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	CO2, water, dry chemical, or 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.

---

## 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.

---

## 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.

---

## 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.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Color</b>	Light Cyan
<b>Odor</b>	Not available.
<b>pH</b>	7.8 - 8.3
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not determined
<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not determined
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available.



**Decomposition temperature** Not available.

**Other data**

**Oxidizing properties** Not determined

**VOC (Weight %)** < 90 g/l

---

**10. STABILITY AND REACTIVITY**

**Conditions to avoid** Not available.

**Hazardous decomposition products** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Stability** Stable under recommended storage conditions.

**Materials to avoid** Incompatible with strong bases and oxidizing agents.

**Hazardous polymerization** Will not occur.

---

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization**

**Skin sensitization** Based on available data, the classification criteria are not met.

**Respiratory sensitization** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Toxic to reproduction** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**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.

**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**

**Ecotoxicological data**

Product	Species	Test Results
Q2291Series[C][3] (CAS Mixture)		
<b>Aquatic</b>		
Algae	EC50	Algae > 100 mg/l, 72 hours
	NOEC	Algae 100 mg/l, 72 hr
Crustacea	EC50	Daphnia > 100 mg/l, 48 hr
	NOEC	Daphnia 100 mg/l, 48 hr
<i>Acute</i>		
Algae	EC50	Algae > 100 mg/l, 72 hours
Crustacea	EC50	Daphnia > 100 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex)
		13.21 mg/l, 48 hours
Cyan colorant (CAS Proprietary)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia
		50 - 100 mg/l, 48 Hours
		102, 48 Hours
Fish	LC50	Fish
		1000, 96 Hours
<b>Ecotoxicity</b>	Information given is based on data on the components and the ecotoxicology of similar products	
<b>Environmental effects</b>	Not available.	
<b>Persistence / degradability</b>	Not available.	
<b>Bioaccumulation</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
2-pyrrolidone		-0.85
<b>Aquatic toxicity</b>	Static acute toxicity (trout), survival (100 mg/L) = 100%	
	Static acute toxicity (trout), survival (10 mg/L) = 100%	
<b>Mobility</b>	Not available.	

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	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> .

### 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>ADR</b>	Not regulated as dangerous goods.
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

### 15. REGULATORY INFORMATION

<b>Federal regulations</b>	
<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.
<b>Kyoto protocol</b>	Not applicable.
<b>Montreal Protocol</b>	Not applicable.
<b>Rotterdam Convention</b>	Not applicable.
<b>Stockholm Convention</b>	Not applicable.

---

## 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
<b>Issue date</b>	15-Jun-2015
<b>Revision date</b>	26-Aug-2015
<b>Version #</b>	02
<b>This data sheet contains changes from the previous version in section(s):</b>	1. Product and Company Identification: Alternate Trade Names OTHER INFORMATION: Disclaimer
<b>Manufacturer information</b>	HP 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** Q2291Series[M][3]  
**Use of the substance/preparation** Inkjet printing  
**Issue date** 15-Jun-2015  
**Revision date** 26-Aug-2015  
**Version #** 02  
**CAS #** Mixture  
**Company identification** HP Colombia SAS  
Carrera 7 No 99-53 Torre B Pisos 7  
Bogota, Colombia  
Telephone (57) 1 639 0000  
  
HP health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP 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

### Classification of the substance or mixture

**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	75-85
Ethyl alkyldiol	Proprietary	< 15
2-pyrrolidone	616-45-5	< 7.5
Alkyldiol ethoxylate	Proprietary	< 2.5
Magenta Dye 2	Proprietary	<1

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

## 4. 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.

---

## 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	CO2, water, dry chemical, or 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.

---

## 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.

---

## 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.

---

## 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.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Color</b>	Magenta
<b>Odor</b>	Not available.
<b>pH</b>	7.7 - 8.3
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not determined
<b>Flash point</b>	200.0 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not determined
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Evaporation rate</b>	Not determined
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available.

**Decomposition temperature** Not available.

**Other data**

**Oxidizing properties** Not determined

**VOC (Weight %)** < 90 g/l

---

## 10. STABILITY AND REACTIVITY

**Conditions to avoid** Not available.

**Hazardous decomposition products** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Stability** Stable under recommended storage conditions.

**Materials to avoid** Incompatible with strong bases and oxidizing agents.

**Hazardous polymerization** Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization**

**Skin sensitization** Based on available data, the classification criteria are not met.

**Respiratory sensitization** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Toxic to reproduction** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**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.

**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

**Ecotoxicological data**

Product	Species	Test Results
Q2291Series[M][3] (CAS Mixture)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours
Components	Species	Test Results

2-pyrrolidone (CAS 616-45-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Ethyl alkyldiol (CAS Proprietary)			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	102, 48 Hours
Fish	LC50	Fish	1000, 96 Hours
Algae	IC50	Algae	101, 72 Hours

Components	Species	Test Results
Crustacea	EC50 Daphnia	101, 48 Hours
Fish	LC50 Fish	77, 96 Hours
<b>Environmental effects</b>	Not available.	
<b>Persistence / degradability</b>	Not available.	
<b>Bioaccumulation</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
2-pyrrolidone	-0.85	
<b>Aquatic toxicity</b>	Static acute toxicity (trout), survival (100 mg/L) = 100%	
	Static acute toxicity (trout), survival (10 mg/L) = 100%	
<b>Mobility</b>	Not available.	

### 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

**Federal regulations**

**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.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Stockholm Convention**

Not applicable.

### 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

**Issue date** 15-Jun-2015

**Revision date** 26-Aug-2015

**Version #**

02

**This data sheet contains changes from the previous version in section(s):**

OTHER INFORMATION: Disclaimer

**Manufacturer information**

HP  
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