$Q2290 Series [C] [3]-MSDS\_MALAYSIA-English-35.pdf$ 

 $Q2290 Series [M] [3]-MSDS\_MALAYSIA-English-35.pdf$ 

 $Q2290 Series [Y] [3]-MSDS\_MALAYSIA-English-36.pdf$ 



# SAFETY DATA SHEET

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

Identification of the substance/preparation Q2290Series[C][3]

12-Jul-2015 **Issue date Revision date** 17-Aug-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

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	65-75
1,5-pentanediol	111-29-5	<10
2-pyrrolidone	616-45-5	< 7.5
Magnesium nitrate hexahydrate	10377-60-3	< 7.5
Ammonium nitrate	6484-52-2	<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. 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.

Material name: Q2290Series[C][3] SDS MALAYSIA

Ingestion

#### **5. FIRE-FIGHTING MEASURES**

Flash point >= 200.0 °F (>= 93.3 °C) Pensky-Martens Closed Cup

Suitable extinguishing media For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

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

reasons

**Unusual fire & explosion** 

hazards

None known.

**Specific methods** 

None established.

**Hazardous combustion** 

products

Refer to section 10.

# **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.

# 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.

#### 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** 

Use in a well ventilated area.

reduce exposure

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Not available. **Appearance Physical state** Liquid. Color Cyan

Odor Not available. Not available. **Odor threshold** 6.2 - 6.8pН Vapor pressure Not available. Not determined **Boiling point** Melting point/Freezing point Not available. Solubility (water) Soluble in water

Specific gravity 1 - 1.2

Flash point >= 200.0 °F (>= 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

Not available. **Auto-ignition temperature** VOC < 338 g/l**Evaporation rate** Not determined

**Viscosity** >= 2 cp

Other data

**Oxidizing properties** Not determined.

Material name: Q2290Series[C][3] SDS MALAYSIA

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

irritation

**Stability** 

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

- single exposure

Specific target organ toxicity

- repeated exposure

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

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

**Further 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

Aspiration hazard

Components **Test Results Species** 

2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral

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

Ammonium nitrate (CAS 6484-52-2)

**Acute** 

Inhalation

LC50 Rat > 88.8 mg/l, 4 Hours

Oral

LD50 Rat 2217 mg/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicological data** 

**Test Results Product Species** 

Cyan ink

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

**Components Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Ammonium nitrate (CAS 6484-52-2)

**Aquatic** 

Crustacea EC50 Daphnia 100, 48 Hours 100, 96 Hours Fish LC50 Fish

Material name: Q2290Series[C][3] SDS MALAYSIA

Components Species Test Results

Cyan colorant (CAS Proprietary)

**Aquatic** 

Crustacea EC50 Daphnia 50 - 100 mg/l, 48 Hours

**Environmental effects** Not available.

**Bioaccumulation** No data available on bioaccumulation.

**Bioaccumulative potential** 

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

#### 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.

#### 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** 12-Jul-2015 **Revision date** 17-Aug-2016

Version # 03
Manufacturer information HP Inc.

1501 Page Mill Road

Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Material name: Q2290Series[C][3] SDS MALAYSIA

## **Explanation of abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

**COC** Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

**SARA** Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Material name: Q2290Series[C][3] SDS MALAYSIA



# SAFETY DATA SHEET

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

Identification of the substance/preparation Q2290Series[M][3]

Issue date12-Jul-2015Revision date17-Aug-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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(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

#### 2. HAZARDS IDENTIFICATION

Physical hazardsNot classified.Health hazardsNot classified.Environmental hazardsNot classified.

**GHS label elements** 

Signal wordNone.Hazard symbolsNone.Hazard statementNone.

**Precautionary statement** 

PreventionNone.ResponseNone.StorageNone.DisposalNone.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Water	7732-18-5	65-75
2-pyrrolidone	616-45-5	< 7.5
Magnesium nitrate hexahydrate	10377-60-3	< 7.5
Substituted napthalenesulfonate salt #8	Proprietary	< 5
Ammonium nitrate	6484-52-2	< 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.

**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.

Material name: Q2290Series[M][3]

SDS MALAYSIA

Ingestion

#### **5. FIRE-FIGHTING MEASURES**

Flash point >= 200.0 °F (>= 93.3 °C) Pensky-Martens Closed Cup

Suitable extinguishing media For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

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

reasons

**Unusual fire & explosion** 

hazards

None known.

**Specific methods Hazardous combustion**  None established.

products

Refer to section 10.

# **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.

# 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.

#### 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Not available. **Physical state** Liquid. Color Magenta Odor Not available. Not available. **Odor threshold** 6.2 - 6.8pН

Vapor pressure Not determined Not determined **Boiling point** Melting point/Freezing point Not available. Solubility (water) Soluble in water

Specific gravity 1 - 1.2

Flash point >= 200.0 °F (>= 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

>= 2 cp

Not available. **Auto-ignition temperature** VOC < 349 g/l**Evaporation rate** Not determined **Viscosity** 

Other data

**Oxidizing properties** Not determined.

Material name: Q2290Series[M][3] SDS MALAYSIA

## 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. 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

**Stability** 

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

Specific target organ toxicity - single exposure

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.

**Further 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 **Test Results Species** 

2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral

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

Ammonium nitrate (CAS 6484-52-2)

**Acute** 

Inhalation

LC50 Rat > 88.8 mg/l, 4 Hours

Oral

LD50 Rat 2217 mg/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicological data** 

**Product Test Results Species** 

Magenta ink

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

**Components Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Ammonium nitrate (CAS 6484-52-2)

**Aquatic** 

Crustacea EC50 Daphnia 100, 48 Hours 100, 96 Hours Fish LC50 Fish

Material name: Q2290Series[M][3]

**Environmental effects** Not available.

**Bioaccumulation** No data available on bioaccumulation.

**Bioaccumulative potential** 

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

## 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.

## **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** 12-Jul-2015 **Revision date** 17-Aug-2016

Version # 03 **Manufacturer information** HP Inc.

1501 Page Mill Road

Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Material name: Q2290Series[M][3] SDS MALAYSIA 4/5

## **Explanation of abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

**COC** Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

**SARA** Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Material name: Q2290Series[M][3] SDS MALAYSIA

# SAFETY DATA SHEET

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

Identification of the substance/preparation Q2290Series[Y][3]

Issue date12-Jul-2015Revision date17-Aug-2016

Version # 03

**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 hazardsNot classified.Health hazardsNot classified.Environmental hazardsNot classified.

**GHS label elements** 

Signal word None.

Hazard symbols None.

Hazard statement None.

**Precautionary statement** 

PreventionNone.ResponseNone.StorageNone.DisposalNone.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Water	7732-18-5	65-75
1,5-pentanediol	111-29-5	<10
2-pyrrolidone	616-45-5	< 7.5
Magnesium nitrate hexahydrate	10377-60-3	< 7.5
naphthalenesulfonate salt #12	Proprietary	< 5
Ammonium nitrate	6484-52-2	< 2.5
Arylazopyrazolesulfonate salt # 3	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.

**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

Material name: Q2290Series[Y][3]

SDS MALAYSIA

# 5. FIRE-FIGHTING MEASURES

Flash point >= 200.0 °F (>= 93.3 °C) Pensky-Martens Closed Cup

Suitable extinguishing media For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

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

reasons

**Unusual fire & explosion** 

hazards

None known.

**Specific methods** None established. **Hazardous combustion** Refer to section 10.

products

#### **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.

#### 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.

#### 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Not available. **Physical state** Liquid. Color Yellow Not available. Odor **Odor threshold** Not available. pН 6.2 - 6.8

Not determined Vapor pressure Not determined **Boiling point** Melting point/Freezing point Not available. Solubility (water) Soluble in water

Specific gravity 1 - 1.2

Flash point >= 200.0 °F (>= 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 < 340 g/l**Evaporation rate** Not determined

**Viscosity** >= 2 cp

Other data

**Oxidizing properties** Not determined.

Material name: Q2290Series[Y][3] SDS MALAYSIA

## 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.

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

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

irritation

**Stability** 

Respiratory or skin sensitization

Skin sensitizationBased on available data, the classification criteria are not met.Respiratory sensitizationBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.Toxic to reproductionBased on available data, the classification criteria are not met.Specific target organ toxicityBased on available data, the classification criteria are not met.

- single exposure

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.

**Further 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)

**Acute** 

Oral

LD50 Guinea pig 6500 mg/kg

Rat 6500 mg/kg

Ammonium nitrate (CAS 6484-52-2)

**Acute** 

Inhalation

LC50 Rat > 88.8 mg/l, 4 Hours

Oral

LD50 Rat 2217 mg/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicological data** 

Product Species Test Results

Yellow ink

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Ammonium nitrate (CAS 6484-52-2)

**Aquatic** 

Crustacea EC50 Daphnia 100, 48 Hours
Fish LC50 Fish 100, 96 Hours

Material name: Q2290Series[Y][3]

Components Species Test Results

Arylazopyrazolesulfonate salt # 3 (CAS Proprietary)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) > 180 mg/l, 96 hours

**Environmental effects** Not available.

**Bioaccumulation** No data available on bioaccumulation.

**Bioaccumulative potential** 

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

#### 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.

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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.

#### 16. OTHER INFORMATION

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Prepared by HP Chemical Compliance & Toxicology Department

Issue date12-Jul-2015Revision date17-Aug-2016

Version # 03
Manufacturer information HP Inc.

1501 Page Mill Road

Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Material name: Q2290Series[Y][3] SDS MALAYSIA

## **Explanation of abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

**COC** Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

**SARA** Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

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