# SAFETY DATA SHEET

1. Identification

Product identifier
Other means of identification

Recommended use

Recommended restrictions
Company identification

Q2321Series Not available. Inkjet printing

None known.

HP

1501 Page Mill Road Palo Alto, CA 94304-1112

**United States** 

Telephone 650-857-5020

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

PART NUMBERS: 5780257FX

57802647

Supplier:

ITW Marking and Coding 1 Missouri Research Park Drive St.

Charles MO 63304-5685 USA 800-526-2531/636-300-2000

Emergency Phone Number: Infotrac: 800-535-5053

+1-352-323-3500 (International)

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use

conditions. Complete toxicity data are not available for this specific formulation.

**Supplemental information** This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	80-90
2-pyrrolidone		616-45-5	<5
Aliphatic diol		Proprietary	<5
Modified carbon black		Proprietary	<5

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

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

Material name: Q2321Series sps us

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.

Most important

symptoms/effects, acute and

delayed

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for

firefighters

Dry chemical, CO2, water spray or regular foam. None known.

Not available.

Not applicable.

Not available.

**Specific methods** None established.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for

containment and cleaning up

**Environmental precautions** 

Wear appropriate personal protective equipment.

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

**Value** 

or diatomaceous earth, commercial sorbents, or recover using pumps. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

# 7. Handling and storage

Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

Components

Avoid contact with skin, eyes and clothing.

Keep out of the reach of children. Keep away from excessive heat or cold.

# 8. Exposure controls/personal protection

### Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

**Type** Aliphatic diol (CAS TWA 10 mg/m3 Proprietary)

No biological exposure limits noted for the ingredient(s). **Biological limit values** Exposure limits have not been established for this product. Exposure guidelines

Appropriate engineering

controls

Use in a well ventilated area.

# Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

**Hand protection** Not available. Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

**General hygiene** considerations

Handle in accordance with good industrial hygiene and safety practice.

Material name: Q2321Series SDS US

# 9. Physical and chemical properties

**Appearance** 

**Physical state** Liquid. Color Black.

Odor Not available. **Odor threshold** Not available. 9 - 9.4 Melting point/freezing point Not available.

Initial boiling point and

Not determined

boiling range

> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup Flash point

**Evaporation rate** Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure Not available.

Solubility(ies)

Solubility (water) Soluble in water Not available. **Partition coefficient** (n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information For other VOC regulatory data/information see Section 15.

VOC (Weight %) < 159 g/l

### 10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under recommended storage conditions.

**Possibility of hazardous** 

reactions

Will not occur.

Conditions to avoid Not available.

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

**Hazardous decomposition** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products dioxide and/or low molecular weight hydrocarbons.

# 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

# Information on toxicological effects

**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

Material name: Q2321Series SDS US

Respiratory or skin sensitization

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

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

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

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

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

- repeated exposure

- single exposure

**Aspiration hazard**Based on available data, the classification criteria are not met. **Further information**Complete toxicity data are not available for this specific formulation

Product Species Test Results

Q2321Series (CAS Mixture)

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Acute Oral

LD50 Guinea pig 6500 mg/kg

Rat 6500 mg/kg

Aliphatic diol (CAS Proprietary)

**Acute** 

Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat 3730 mg/kg

Other

LD50 Mouse 1738 mg/kg

# 12. Ecological information

**Ecotoxicity** 

Product Species Test Results

Q2321Series (CAS Mixture)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 750 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

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85 Aliphatic diol -0.106

Mobility in soilNot available.Other adverse effectsNot available.

Material name: Q2321Series sps us

# 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

### **US federal regulations** US

US TSCA 12(b): Does not contain listed chemicals.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

Other federal regulations

**Safe Drinking Water Act** Not regulated.

(SDWA)

### **US state regulations**

# **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5)

### **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

### **US. Pennsylvania Worker and Community Right-to-Know Law**

2-pyrrolidone (CAS 616-45-5)

### **US. Rhode Island RTK**

Not regulated.

# **US. California Proposition 65**

Not Listed.

### **Other information** VOC content (less water, less exempt compounds) = < 1616 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Material name: Q2321Series sps us

### **Regulatory information**

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, including date of preparation or last revision

Issue date19-Jun-2015Revision date25-Aug-2015

Version # 02

**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.

**Revision Information** Other information, including date of preparation or last revision: Disclaimer

Manufacturer information HF

1501 Page Mill Road

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

# **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: Q2321Series sps us