

SAFETY DATA SHEET

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

Identification of the

preparation

Q2321Series

Use of the

substance/preparation

Inkjet printing

Version No.

04

Revision date

11-Sep-2012

CAS#

Mixture

Company identification

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2. HAZARDS IDENTIFICATION

Contact with skin and eyes may result in irritation. **Emergency Overview**

Causes skin irritation.

Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

Skin contact 2-pyrrolidone

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Eye contact 2-pyrrolidone

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Inhalation 2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Ingestion 2-pvrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure 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

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Other information This black ink is not classified according to EU Directive 1999/45/EC.

Classification Not classified.

Physical hazards Not classified as a physical hazard. **Health hazards** Not classified as a health hazard.

Material name: Q2321Series 1/4

SPS Version No.: 04 Revision date: 10-Sep-2012 Print date: 11-Sep-2012

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	Percent	EC-No.	Classification
Water	7732-18-5	< 90	231-791-2	
2-pyrrolidone	616-45-5	< 5	210-483-1	Xi;R36/38
Aliphatic diol	Proprietary	< 5	Proprietary	

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

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.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

least 15 minutes or until particles are removed. If irritation persists get medical attention.

If ingestion of a large amount does occur, seek medical attention. Ingestion

General advice No additional information

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

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.

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

or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Other information

Soak up with inert absorbent material.

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other

sealed container. Dispose of in compliance with federal, state, and local regulations. See also

section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Use in a well ventilated area. **Exposure controls**

Occupational exposure controls

General Use personal protective equipment to minimize exposure to skin and eye. **Hygiene measures** Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. **Physical state** Liquid

Form Not available.

Colour Black.

Odour Not available.

Material name: Q2321Series SDS UK **Odour threshold** Not available.

pH 9

Boiling point Not determined

Flash point 93.3 °C (200 °F) Pensky-Martens Closed Cup

Flammability limits in air,

upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not determined

Vapour pressureNot determinedRelative densityNot available.Solubility (water)Soluble in waterPartition coefficientNot available

(n-octanol/water)

Viscosity 2 cp

Vapour densityNot available.Evaporation rateNot determinedMelting pointNot available.Freezing pointNot available.Auto-ignition temperatureNot available.

Specific gravity 1

VOC < 159 g/l

10. STABILITY AND REACTIVITY

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 polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye

irritation

Not available.

Further information This ink formulation has not been tested for toxicological effects.

Refer to Section 2 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Aquatic toxicity LC50/96h/Fathead minnows =>750 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

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

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains 2-pyrrolidone, Aliphatic diol, Water

EC label This product does not require a label according to EU Directive 1999/45/EC.

Material name: Q2321Series SDS UK

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

Wording of the R-phrases in

sections 2 and 3

R36/38 Irritating to eyes and skin.

Other information

This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and

may not meet regulatory requirements in other countries.

Issue date 11-Sep-2012

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

PHYSICAL AND CHEMICAL PROPERTIES: Appearance PHYSICAL AND CHEMICAL PROPERTIES: Colour TOXICOLOGICAL INFORMATION: Further information TRANSPORT INFORMATION: Further information REGULATORY INFORMATION: Other information

Manufacturer information

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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: <value> Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Material name: Q2321Series SDS UK