SAFETY DATA SHEET

1. Identification

Product identifier C2P23Series Other means of identification Not available. **Recommended use** Inkjet printing **Recommended restrictions** None known. **Issue date** 20-Jun-2014

Company identification Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard 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. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. OSHA hazard(s) Not classified.

Label elements

Hazard symbol No symbol. Signal word Not available. **Hazard statement** Not available.

Precautionary statement

Prevention Not available. Response Not available. Storage Not available. **Disposal** Not available. Hazard(s) not otherwise Not classified.

classified (HNOC)

3. Composition/information on ingredients

Mixtures

Hazardous components Chemical name

2-pyrrolidone	616-45-5	< 15
Non-hazardous components Chemical name	CAS number	%
Water	7732-18-5	> 70
Co-Solvent*	Proprietary*	< 10
Carbon Black Colorant	1333-86-4	< 5

Composition comments

This ink supply contains an aqueous ink formulation.

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

Communication Standard).

Carbon black is present only in a bound form in this preparation.

Material name: C2P23Series SDS US

%

CAS number

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 contactDo 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

Not available.

5. Fire-fighting measures

Flash point > 230.00 °F (> 110.00 °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.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

firefighters

Not available.

Specific methods None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

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.

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

7. Handling and storage

Precautions for safe handling Avoid contact with skin, eyes and clothing.

Conditions for safe storage,

including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Carbon Black Colorant (CAS	PEL	3.5 mg/m3
1333-86-4)		

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form	
Carbon Black Colorant (CAS	TWA	3 mg/m3	Inhalable fraction.	
1222 06 4\				

1333-86-4)

US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Carbon Black Colorant (CAS TWA 0.1 mg/m3

1333-86-4)

Biological limit values No biological exposure limits noted for the ingredient(s).

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 protectionNot available.OtherNot available.

Material name: C2P23Series SDS US

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

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Not available.

Physical state Liquid.

Color Black.

Odor Not available.
Odor threshold Not available.
pH 7.5 - 9
Melting point/freezing point Not available.
Initial boiling point and Not available.

boiling range

Flash point > 230.00 °F (> 110.00 °C) Pensky-Martens Closed Cup

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

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Not available.

Explosive limit - lower

(%)

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Solubility(ies)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

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

Oxidizing properties Not determined VOC (Weight %) < 229 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

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon 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: C2P23Series SDS US

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

> Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains

bound within a product matrix, specifically, rubber, ink, or paint.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black Colorant (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

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.

- single exposure

Specific target organ toxicity

- repeated exposure

Aspiration hazard

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.

Components **Species Test Results**

2-pyrrolidone (CAS 616-45-5)

Acute Oral

LD50

Guinea pig 6500 mg/kg Rat 6500 mg/kg

Carbon Black Colorant (CAS 1333-86-4)

Acute

Oral

LD50 Rat > 8000 mg/kg

12. Ecological information

Aquatic toxicity This product has not been tested for ecological effects.

Ecotoxicity

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)

-0.852-pyrrolidone

Mobility in soil Not available. Other adverse effects 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

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.

Local disposal regulations Hazardous waste code

Waste from residues / unused products

Not available. Not regulated. Not available.

Contaminated packaging

Not available.

Material name: C2P23Series SDS US

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according

No information available.

to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

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

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

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 No

hazardous substance

SARA 311/312 No

Hazardous chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Chemical Code Number

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug Not regulated.

Administration (FDA)

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

Carbon Black Colorant (CAS 1333-86-4)

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

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

2-pyrrolidone (CAS 616-45-5)

Carbon Black Colorant (CAS 1333-86-4)

US. Rhode Island RTK

Carbon Black Colorant (CAS 1333-86-4)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon Black Colorant (CAS 1333-86-4)

Material name: C2P23Series SDS US 5/6 11120 Version #: 01 Issue date: 20-Jun-2014

Other information VOC content (less water, less exempt compounds) = < 884 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

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 date 20-Jun-2014

Version # 01

Further information Not available.

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.

Revision Information Toxicological information: Carcinogenicity

Manufacturer information Hewlett-Packard Company

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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 Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

Material name: C2P23Series SDS US