# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name B3P21Series

Version # 05

Issue date28-Jan-2013Revision date08-Jun-2013Supersedes date04-Jun-2013CAS #Mixture

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-1501

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 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

**Emergency overview** 

Contact with skin and eyes may result in irritation.

Other hazards

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

# 3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
2-pyrrolidone	616-45-5	< 5
Non-hazardous components	CAS #	Percent
Water	7732-18-5	> 70
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 10
Aliphatic diol	Proprietary	< 10
Substituted naphthalenesulfonate salt # 13	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).

### 4. First Aid Measures

General advice No information

First aid procedures

**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.

**Skin contact** Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

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5. Fire Fighting Measures

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

CO2, water, dry chemical, or foam

**Unsuitable extinguishing** 

media

None known.

Fire fighting

equipment/instructions

Not available.

**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.

Methods for cleaning up

Soak up with inert absorbent material.

**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.

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

# 8. Exposure Controls / Personal Protection

### **Occupational exposure limits**

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValueAliphatic diol (CASTWA10 mg/m3Proprietary)

**Exposure guidelines** Exposure limits have not been established for this product.

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

**Personal protective equipment** 

**General**Use personal protective equipment to minimize exposure to skin and eye. **General hygiene considerations**Use personal protective equipment to minimize exposure to skin and eye.

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical & Chemical Properties

AppearanceNot available.Physical stateNot available.FormNot available.ColorYellow

 Odor
 Not available.

 pH
 7.1 - 7.7

Vapor pressureNot determinedBoiling pointNot determinedMelting point/Freezing pointNot available.Solubility (water)Soluble in waterSpecific gravityNot available.

Flash point > 200.00 °F (> 93.33 °C) Setaflash Closed Tester

**Viscosity** > 2 cp **VOC** < 245 g/L

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

10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

**Conditions to avoid** No information available

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

**Hazardous decomposition** 

products

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

dioxide and/or low molecular weight hydrocarbons.

**Possibility of hazardous** 

reactions

Will not occur.

# 11. Toxicological Information

# **Toxicological data**

Components	Species	Test Results
2-pyrrolidone (CAS 616-45	i-5)	
Acute		
Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Aliphatic diol (CAS Propriet	tary)	
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Oral		
LD50	Rat	3730 mg/kg
Other		
LD50	Mouse	1738 mg/kg

# 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 aid measures.

13.21 mg/l, 48 hours

# 12. Ecological Information

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

Ecotoxicological data

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Aquatic			

Water flea (Daphnia pulex)

EC50 Crustacea

Persistence and degradability Not available.

# **Bioaccumulation / Accumulation**

### **Bioaccumulative potential**

### Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85 Aliphatic diol -0.106

**Partition coefficient** 

2-pyrrolidone -0.85 Aliphatic diol -0.106

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# 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.

#### **RID**

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

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

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.

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

Not regulated.

### **CERCLA (Superfund) reportable quantity**

None

### 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** 

Nο

hazardous substance

No

**SARA 311/312 Hazardous chemical** 

Other information

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

VOC content (less water, less exempt compounds) = < 950 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

# Other 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.

### State regulations

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-DIOXANE (CAS 123-91-1) Listed: January 1, 1988 Carcinogenic.

Material name: B3P21Series MSDS US ETHYLENE OXIDE (CAS 75-21-8) Listed: July 1, 1987 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: February 27, 1987 Female reproductive toxin.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009 Male reproductive toxin.

**US. Massachusetts RTK - Substance List** 

2-pyrrolidone (CAS 616-45-5)

**US. Pennsylvania RTK - Hazardous Substances** 

2-pyrrolidone (CAS 616-45-5) Listed.

**US. Rhode Island RTK** 

Not regulated.

16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard

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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

**Issue date** 28-Jan-2013

Manufacturer information Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

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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

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