



# SAFETY DATA SHEET

CH564Eseries

HP 301 Tri-Color Ink Cartridge



# SAFETY DATA SHEET

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

**Identification of the preparation** CH564Eseries[C]  
**Use of the substance/preparation** Inkjet printing  
**Version #** 00  
**Revision date** 30-Jun-2010  
**CAS #** Mixture  
**Company identification** Hewlett-Packard GmbH  
Herrenberger Str. 140  
71034 Böblingen, Deutschland  
Telephone 07031 140  
  
Hewlett-Packard health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-503-494-7199  
HP Customer Care Line  
(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com  
Poison Information Centre +49 089 1 92 40

## 2. HAZARDS IDENTIFICATION

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

### Acute health effects

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

#### Skin contact

*1,5-pentanediol*

Contact with skin may result in irritation.

*Ethyl alkyl diol*

Contact with skin may result in mild irritation.

*Metal nitrate # 2*

Contact with skin may result in irritation.

#### Eye contact

*1,5-pentanediol*

Contact with eyes may result in irritation.

*Ethyl alkyl diol*

Contact with eyes may result in mild irritation.

*Metal nitrate # 2*

Contact with eyes may result in irritation.

*Substituted phthalocyanine salt #1*

Contact with eyes may result in irritation.

#### Inhalation

*Metal nitrate # 2*

Inhalation may result in respiratory irritation.

#### Ingestion

*Metal nitrate # 2*

Contains nitrate salts, may cause methemoglobinemia.

### 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 blue ink is not classified according to EU Directive 1999/45/EC.

#### Classification

Not classified.

<b>Physical hazards</b>	Not classified as a physical hazard.
<b>Health hazards</b>	Not classified as a health hazard.
<b>Environmental hazards</b>	Not classified as an environmental hazard.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Substituted phthalocyanine salt #1	Proprietary	< 2.5	Proprietary	
Metal nitrate # 2	Proprietary	< 2.5	Proprietary	O;R8, Xi;R36/37/38
2-pyrrolidone	616-45-5	< 7.5	210-483-1	
Ethyl alkyldiol	Proprietary	< 7.5	Proprietary	
1,5-pentanediol	111-29-5	< 10	203-854-4	
Water	7732-18-5	> 65	231-791-2	

**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

<b>Inhalation</b>	Remove to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.

### 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	> 200 °F (> 93.3 °C) Pinsky-Martens Closed Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	None known.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Containment procedures</b>	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.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Other information</b>	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

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Additional exposure data</b>	Exposure limits have not been established for this product.
<b>Exposure controls</b>	Use in a well ventilated area.
<b>Occupational exposure controls</b>	
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Not available.
<b>Physical state</b>	Liquid
<b>Form</b>	Not available.
<b>Color</b>	Cyan
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.5 - 7
<b>Boiling point</b>	Not available.
<b>Flash point</b>	> 200 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Viscosity</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 232 g/L

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## 10. STABILITY AND REACTIVITY

<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

<b>Serious eye damage/eye irritation</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Further information</b>	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.

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## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	This product has not been tested for ecological effects.
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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. TRANSPORT INFORMATION

<b>Further information</b>	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.
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### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

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## 15. REGULATORY INFORMATION

### Labeling

**Contains** 1,5-pentanediol, 2-pyrrolidone, Ethyl alkylidiol, Metal nitrate # 2, Substituted phthalocyanine salt #1, Water

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

**Regulatory information** All ingredients are listed on EINECS and/or ELINCS or exempt.

### Water hazard class

**VwVws** WGK1

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## 16. OTHER INFORMATION

**Wording of the R-phrases in sections 2 and 3** R8 Contact with combustible material may cause fire.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system 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-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.

**Issue date** 30-Jun-2010

**Manufacturer information** Hewlett-Packard Company  
1000 NE Circle Boulevard  
Corvallis, OR 97330-4239 US  
(Direct) 1-503-494-7199  
(Toll-free within the US) 1-800-457-4209

### Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds



# SAFETY DATA SHEET

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

**Identification of the preparation** CH564Eseries[M]  
**Use of the substance/preparation** Inkjet printing  
**Version #** 00  
**Revision date** 30-Jun-2010  
**CAS #** Mixture  
**Company identification** Hewlett-Packard GmbH  
Herrenberger Str. 140  
71034 Böblingen, Deutschland  
Telephone 07031 140  
  
Hewlett-Packard health effects line  
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Email: hpcustomer.inquiries@hp.com  
Poison Information Centre +49 089 1 92 40

## 2. HAZARDS IDENTIFICATION

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

### Acute health effects

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

*1,5-pentanediol*

Contact with skin may result in irritation.

*Ethyl alkyl diol*

Contact with skin may result in mild irritation.

*Metal nitrate # 2*

Contact with skin may result in irritation.

### Eye contact

*1,5-pentanediol*

Contact with eyes may result in irritation.

*Ethyl alkyl diol*

Contact with eyes may result in mild irritation.

*Metal nitrate # 2*

Contact with eyes may result in irritation.

### Inhalation

*Metal nitrate # 2*

Inhalation may result in respiratory irritation.

### Ingestion

*Metal nitrate # 2*

Contains nitrate salts, may cause methemoglobinemia.

### 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 blue 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.

**Environmental hazards**

Not classified as an environmental hazard.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS #	Percent	EC-No.	Classification
Substituted naphthalenesulfonate salt #8	Proprietary	< 2.5	Proprietary	
Metal nitrate # 2	Proprietary	< 2.5	Proprietary	O;R8, Xi;R36/37/38
2-pyrrolidone	616-45-5	< 7.5	210-483-1	
Ethyl alkyldiol	Proprietary	< 7.5	Proprietary	
1,5-pentanediol	111-29-5	< 10	203-854-4	
Water	7732-18-5	> 65	231-791-2	

**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**

<b>Inhalation</b>	Remove to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.

**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	> 200 °F (> 93.3 °C) Pinsky-Martens Closed Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	None known.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Containment procedures</b>	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.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Other information</b>	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**

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Additional exposure data</b>	Exposure limits have not been established for this product.
<b>Exposure controls</b>	Use in a well ventilated area.
<b>Occupational exposure controls</b>	
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Not available.
<b>Physical state</b>	Liquid
<b>Form</b>	Not available.
<b>Color</b>	Magenta
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.5 - 7
<b>Boiling point</b>	Not available.
<b>Flash point</b>	> 200 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Viscosity</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 235 g/L

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## 10. STABILITY AND REACTIVITY

<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

<b>Serious eye damage/eye irritation</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Further information</b>	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.

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## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	This product has not been tested for ecological effects.
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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. TRANSPORT INFORMATION

<b>Further information</b>	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.
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### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.



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## 15. REGULATORY INFORMATION

### Labeling

**Contains** 1,5-pentanediol, 2-pyrrolidone, Ethyl alkylidol, Metal nitrate # 2, Substituted naphthalenesulfonate salt #8, Water

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

### Regulatory information

All ingredients are listed on EINECS and/or ELINCS or exempt.

### Water hazard class

**VwVws** WGK1

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## 16. OTHER INFORMATION

### Wording of the R-phrases in sections 2 and 3

R8 Contact with combustible material may cause fire.  
R36/37/38 Irritating to eyes, respiratory system 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-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.

### Issue date

30-Jun-2010

### Manufacturer information

Hewlett-Packard Company  
1000 NE Circle Boulevard  
Corvallis, OR 97330-4239 US  
(Direct) 1-503-494-7199  
(Toll-free within the US) 1-800-457-4209

### Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds



# SAFETY DATA SHEET

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

**Identification of the preparation** CH564Eseries[Y]  
**Use of the substance/preparation** Inkjet printing  
**Version #** 00  
**Revision date** 30-Jun-2010  
**CAS #** Mixture  
**Company identification** Hewlett-Packard GmbH  
Herrenberger Str. 140  
71034 Böblingen, Deutschland  
Telephone 07031 140  
  
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Email: hpcustomer.inquiries@hp.com  
Poison Information Centre +49 089 1 92 40

## 2. HAZARDS IDENTIFICATION

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

### Acute health effects

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

*1,5-pentanediol*

Contact with skin may result in irritation.

*Ethyl alkyl diol*

Contact with skin may result in mild irritation.

*Metal nitrate # 2*

Contact with skin may result in irritation.

### Eye contact

*1,5-pentanediol*

Contact with eyes may result in irritation.

*Ethyl alkyl diol*

Contact with eyes may result in mild irritation.

*Metal nitrate # 2*

Contact with eyes may result in irritation.

### Inhalation

*Metal nitrate # 2*

Inhalation may result in respiratory irritation.

### Ingestion

*Metal nitrate # 2*

Contains nitrate salts, may cause methemoglobinemia.

### 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 blue 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.

**Environmental hazards**

Not classified as an environmental hazard.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS #	Percent	EC-No.	Classification
Substituted naphthalenesulfonate salt #12	Proprietary	< 5	Proprietary	
Metal nitrate # 2	Proprietary	< 5	Proprietary	O;R8, Xi;R36/37/38
2-pyrrolidone	616-45-5	< 7.5	210-483-1	
Ethyl alkyldiol	Proprietary	< 7.5	Proprietary	
1,5-pentanediol	111-29-5	< 10	203-854-4	
Water	7732-18-5	> 65	231-791-2	

**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.

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**4. FIRST AID MEASURES**

<b>Inhalation</b>	Remove to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.

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**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	200 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	None known.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

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**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Containment procedures</b>	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.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Other information</b>	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.

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**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Additional exposure data</b>	Exposure limits have not been established for this product.
<b>Exposure controls</b>	Use in a well ventilated area.
<b>Occupational exposure controls</b>	
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Not available.
<b>Physical state</b>	Liquid
<b>Form</b>	Not available.
<b>Color</b>	Yellow
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.5 - 7
<b>Boiling point</b>	Not available.
<b>Flash point</b>	200 °F (93.3 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Viscosity</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 233 g/L

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## 10. STABILITY AND REACTIVITY

<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

<b>Serious eye damage/eye irritation</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Further information</b>	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.

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## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	This product has not been tested for ecological effects.
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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. TRANSPORT INFORMATION

<b>Further information</b>	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.
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### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

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## 15. REGULATORY INFORMATION

### Labeling

**Contains** 1,5-pentanediol, 2-pyrrolidone, Ethyl alkylidol, Metal nitrate # 2, Substituted naphthalenesulfonate salt #12, Water

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

**Regulatory information** All ingredients are listed on EINECS and/or ELINCS or exempt.  
Contains components not listed in: Canada, Japan, Philippines and Ontario.

### Water hazard class

**VwVws** WGK1

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## 16. OTHER INFORMATION

**Wording of the R-phrases in sections 2 and 3** R8 Contact with combustible material may cause fire.  
R36/37/38 Irritating to eyes, respiratory system 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-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.

**Issue date** 30-Jun-2010

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### Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds