MATERIAL SAFETY DATA SHEET

CH562Wseries

HP 61 Tri-Color Ink Cartridge
1. Product and Company Identification

Identification of the preparation: CH562Wseries[C]

Product use: Inkjet printing

Version #: 00

Revision date: 08-Jul-2010

CAS #: 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) 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

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 alkyldiol**

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 alkyldiol**

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.

**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.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Ethyl alkyldiol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Copper phthalocyanine direct dye salt</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 65</td>
</tr>
</tbody>
</table>

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

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. Get medical attention if irritation develops or persists.

Inhalation
Remove to fresh air. If symptoms persist, get medical attention.

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

5. Fire Fighting Measures

Flammable properties
None known.

Extinguishing media

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

Unsuitable extinguishing media
None known.

Specific methods
None established.

Hazardous combustion products
Refer to section 10.

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 containment
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
Soak up with inert absorbent material.

Other information
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

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

Engineering controls
Use in a well ventilated area.

Personal protective equipment

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

General
Use personal protective equipment to minimize exposure to skin and eye.
9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Cyan</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 8.4</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °F (&gt; 93.3 °C) Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt; 265 g/L</td>
</tr>
<tr>
<td>Other information</td>
<td>VOC content (less water, less exempt compounds) = &lt; 860 g/L (U.S. requirement, not for emissions)</td>
</tr>
</tbody>
</table>

10. Chemical Stability & Reactivity Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Incompatible with strong bases and oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

11. Toxicological Information

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<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Not available.</td>
</tr>
<tr>
<td>Further information</td>
<td>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.</td>
</tr>
</tbody>
</table>

12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic toxicity</td>
<td>This product has not been tested for ecological effects.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Dispose of in compliance with federal, state, and local regulations.</td>
</tr>
</tbody>
</table>

14. Transport Information

<table>
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<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Further information</td>
<td>Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.</td>
</tr>
<tr>
<td>DOT</td>
<td>Not regulated as dangerous goods.</td>
</tr>
</tbody>
</table>
IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

15. Regulatory Information

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

CERCLA (Superfund) reportable quantity
None

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical
Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
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<tr>
<th>Hazard categories</th>
<th>Immediate Hazard - No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delayed Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard - No</td>
<td></td>
</tr>
</tbody>
</table>

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

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

Other information
This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings
Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 2
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.

Issue date
08-Jul-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

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<td>Code of Federal Regulations</td>
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<tr>
<td>COC</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act (aka SARA)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
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<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
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<td>NTP</td>
<td>National Toxicology Program</td>
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1. Product and Company Identification

Identification of the preparation: CH562Wseries
Product use: Inkjet printing
Version #: 00
Revision date: 08-Jul-2010
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3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

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(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

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.
- Alkyldiol ethoxylate
  Contact with skin may result in severe irritation.
- Ethyl alkyldiol
  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.
- Alkyldiol ethoxylate
  Contact can cause moderate to severe irritation and possible injury to the eyes.
- Ethyl alkyldiol
  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

- Alkyldiol ethoxylate
  Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.
- 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.

Chronic health effects

Complete toxicity data are not available for this specific formulation.

Carcinogenicity

None known.

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.

3. Composition / Information on Ingredients

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<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
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</thead>
<tbody>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Polycyclic sulfonic acid, TMA salt</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Alkyldiol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 65</td>
</tr>
</tbody>
</table>

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

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. Get medical attention if irritation develops or persists.

Inhalation

Remove to fresh air. If symptoms persist, get medical attention.

Ingestion

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

5. Fire Fighting Measures

Flammable properties

None known.

Extinguishing media

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media

None known.

Specific methods

None established.

Hazardous combustion products

Refer to section 10.

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 containment

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

Soak up with inert absorbent material.

Other information

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

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

Engineering controls
Use in a well ventilated area.

Personal protective equipment

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

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

9. Physical & Chemical Properties

Appearance
Not available.

Color
Magenta

Odor
Not available.

Odor threshold
Not available.

Physical state
Liquid

Form
Not available.

pH
8 - 8.4

Melting point
Not available.

Freezing point
Not available.

Boiling point
Not determined

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

Evaporation rate
Not determined

Flammability limits in air, upper, % by volume
Not available.

Flammability limits in air, lower, % by volume
Not available.

Vapor pressure
Not determined

Vapor density
Not available.

Specific gravity
Not available.

Relative density
Not available.

Solubility (water)
Soluble in water

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

VOC
< 266 g/L

Other information
VOC content (less water, less exempt compounds) = < 812 g/L (U.S. requirement, not for emissions)

10. Chemical Stability & Reactivity Information

Chemical stability
Stable under recommended storage conditions.

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

Serious eye damage/eye irritation
Not available.

Skin sensitization
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.
12. Ecological Information
Aquatic toxicity This product has not been tested for ecological effects.
Persistence and degradability Not available.

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 United States DOT, IATA, ADR, IMDG, or RID.
DOT 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
US federal regulations US TSCA 12(b): Does not contain listed chemicals.
CERCLA (Superfund) reportable quantity None
Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 Yes
hazardous chemical
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance No
Section 311 hazardous chemical Yes
State regulations
US - Pennslyvania RTK - Hazardous Substances: Listed substance
2-pyrrolidone (CAS 616-45-5) Listed.
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
Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings Health: 1
Flammability: 2
Physical hazard: 0
NFPA ratings Health: 1
Flammability: 2
Instability: 0
Disclaimer

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Issue date

08-Jul-2010

Manufacturer information

Hewlett-Packard Company
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1. Product and Company Identification

Identification of the preparation
CH562Wseries[Y]

Product use
Inkjet printing

Version #
00

Revision date
08-Jul-2010

CAS #
Mixture

Company identification
Hewlett-Packard Company
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Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

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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 alkyldiol
Contact with skin may result in mild irritation.

Metal nitrate # 2
Contact with skin may result in irritation.

Substituted naphthalenesulfonate salt # 13
Contact with skin may result in irritation.

Eye contact
1,5-pentanediol
Contact with eyes may result in irritation.

Ethyl alkyldiol
Contact with eyes may result in mild irritation.

Metal nitrate # 2
Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt # 13
Contact with eyes may result in irritation.

Inhalation
Metal nitrate # 2
Inhalation may result in respiratory irritation.

Substituted naphthalenesulfonate salt # 13
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.

Chronic health effects
Complete toxicity data are not available for this specific formulation.

Carcinogenicity
None known.

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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Ethyl alkylidio</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulfonate salt # 13</td>
<td>214559-61-2</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 65</td>
</tr>
</tbody>
</table>

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

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. Get medical attention if irritation develops or persists.

Inhalation
Remove to fresh air. If symptoms persist, get medical attention.

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

5. Fire Fighting Measures

Flammable properties
None known.

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

Unsuitable extinguishing media
None known.

Specific methods
None established.

Hazardous combustion products
Refer to section 10.

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 containment
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
Soak up with inert absorbent material.

Other information
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.
8. Exposure Controls / Personal Protection

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

Engineering controls: Use in a well ventilated area.

Personal protective equipment:
- General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.
- General: Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

Appearance: Not available.
Color: Yellow
Odor: Not available.
Odor threshold: Not available.
Physical state: Liquid
Form: Not available.
pH: 8 - 8.4
Melting point: Not available.
Freezing point: Not available.
Boiling point: Not determined
Flash point: > 200 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate: Not determined
Flammability limits in air, upper, % by volume: Not available.
Flammability limits in air, lower, % by volume: Not available.
Vapor pressure: Not determined
Vapor density: Not available.
Specific gravity: Not available.
Relative density: Not available.
Solubility (water): Soluble in water
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
VOC: < 266 g/L
Other information: VOC content (less water, less exempt compounds) = < 812 g/L (U.S. requirement, not for emissions)

10. Chemical Stability & Reactivity Information

Chemical stability: Stable under recommended storage conditions.
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

Serious eye damage/eye irritation: Not available.
Skin sensitization: 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.

12. Ecological Information

Aquatic toxicity: This product has not been tested for ecological effects.
Persistence and degradability  Not available.

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 United States DOT, IATA, ADR, IMDG, or RID.

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

CERCLA (Superfund) reportable quantity  None

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical  Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories  Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance  No

Section 311 hazardous chemical  Yes

State regulations  US - Pennsylvania RTK - Hazardous Substances: Listed substance
2-pyrrolidone (CAS 616-45-5) Listed.

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
Other information  This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings  Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings  Health: 1
Flammability: 2
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.

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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