1. Identification

Product name: CN007Series[C][2]

Recommended use and Limitations on use

Recommended use: Inkjet printing

Company identification: HP PPS Asia Pacific Pte. Ltd.
1150 Depot Road
Singapore, Singapore 109673
Telephone 62753888

HP 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

Issue date: 03-Jun-2015
Revision date: 22-Sep-2015
Version #: 02

2. Hazards identification

GHS classification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.

GHS label elements

Pictograms: None.
Signal word: None.
Hazard statement: None.

Precautionary statement

Prevention: None.
Response: None.
Storage: None.
Disposal: None.

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

Substance or mixture: Mixture

Chemical property

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>70-85</td>
</tr>
<tr>
<td>1-(2-hydroxyethyl)-2-pyrrolidone</td>
<td>3445-11-2</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Cyan pigment</td>
<td>Proprietary</td>
<td>&lt;2.5</td>
</tr>
</tbody>
</table>

Composition comments: This ink supply contains an aqueous ink formulation.

4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, get medical attention.
Skin contact

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

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.

Ingestion

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

Most important symptoms/effects, acute and delayed

Not available.

Personal protection for first-aid responders

Not available.

Notes to physician

Not available.

5. Fire-fighting measures

Flash point

> 200.0 °F (> 93.3 °C) Setaflash Closed Cup

Extinguishing media

CO2, water, dry chemical, or foam

Extinguishing media to avoid

None known.

Specific hazards during firefighting

None.

Special fire fighting procedures

None.

Protection of fire-fighters

None.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Environmental precautions

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

Spill cleanup methods

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.

7. Handling and storage

Handling

Precautions

Not available.

Safe handling advice

Avoid contact with skin, eyes and clothing.

Storage

Incompatible materials

Not available.

Storage

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

8. Exposure controls/personal protection

Control parameters/Occupational exposure limits

No exposure limits noted for ingredient(s).

Appropriate engineering control measures

Use in a well ventilated area.

Personal protective equipment

Respiratory protection

Not available.

Skin protection

Not available.

Eye/face protection

Not available.

Thermal hazards

Not available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

General

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

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Color

Cyan

Odor

Not available.

Odor threshold

Not available.

pH

8.7 - 9.1

Melting point/freezing point

Not available.
10. Stability and reactivity

Reactivity
Not available.

Stability
Stable under recommended storage conditions.

Conditions to avoid
None.

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. Decomposition of this product may yield oxides of phosphorus, hydrogen fluoride, fluorinated hydrocarbons.

Possibility of hazardous reactions
Will not occur.

11. Toxicological information

Routes of exposure
Not available.

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

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.

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

Toxic to reproduction
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure
Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

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

Other 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.
### Test Results

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Guinea pig</td>
<td>6500 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>6500 mg/kg</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### Aquatic toxicity

This product has not been tested for ecological effects.

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>13.21 mg/l, 48 hours</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

Not available.

#### Bioaccumulation

**Bioaccumulative potential**

- Octanol/water partition coefficient log Kow
  - 2-pyrrolidone: -0.85

#### Mobility

Not available.

#### Other hazardous effects

Not available.

### 13. Disposal considerations

**Disposal methods/information**

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](http://www.hp.com/recycle).

**Special precautions**

Not available.

### 14. Transport information

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**Further information**

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

### 15. Regulatory information

**Applicable regulations**

- **Basel Convention**
  - Not applicable.

- **Kyoto protocol**
  - Not applicable.

- **Montreal Protocol**
  - Not applicable.

- **Rotterdam Convention**
  - Not applicable.

- **Stockholm Convention**
  - Not applicable.
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.

### Regulatory information

**References**
Not available.

**Issued by**
Not available.

**Prepared by**
HP

**Disclaimer**
This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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**
03-Jun-2015

**Revision date**
22-Sep-2015

**Version #**
02

**Manufacturer information**
HP
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020

### Explanation of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<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>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>REC</td>
<td>Recommended</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act of 1986</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
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</table>
1. Identification

Product name: CN007Series[M][2]

Recommended use and Limitations on use

Recommended use: Inkjet printing

Company identification: HP PPS Asia Pacific Pte. Ltd.
1150 Depot Road
Singapore, Singapore 109673
Telephone 62753888

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2. Hazards identification

GHS classification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.

GHS label elements

Pictograms: None.
Signal word: None.
Hazard statement: None.

Precautionary statement

Prevention: None.
Response: None.
Storage: None.
Disposal: None.

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

Substance or mixture: Mixture

Chemical property

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<td>3445-11-2</td>
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<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Magenta pigment</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

Composition comments: This ink supply contains an aqueous ink formulation.

4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, get medical attention.
Skin contact
Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

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.

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

Most important symptoms/effects, acute and delayed
Not available.

Personal protection for first-aid responders
Not available.

Notes to physician
Not available.

5. Fire-fighting measures

Flash point
> 200.0 °F (> 93.3 °C) Setaflash Closed Cup

Extinguishing media
CO2, water, dry chemical, or foam

Extinguishing media to avoid
None known.

Specific hazards during firefighting
None.

Special fire fighting procedures
None.

Protection of fire-fighters
None.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear appropriate personal protective equipment.

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

Spill cleanup methods
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.

7. Handling and storage

Handling
Precautions
Not available.

Safe handling advice
Avoid contact with skin, eyes and clothing.

Storage
Incompatible materials
Not available.

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

8. Exposure controls/personal protection

Control parameters/Occupational exposure limits
No exposure limits noted for ingredient(s).

Appropriate engineering control measures
Use in a well ventilated area.

Personal protective equipment
Respiratory protection
Not available.

Skin protection
Not available.

Eye/face protection
Not available.

Thermal hazards
Not available.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

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

9. Physical and chemical properties

Appearance
Physical state
Liquid.

Color
Magenta

Odor
Not available.

Odor threshold
Not available.

pH
8.7 - 9.1

Melting point/freezing point
Not available.
Boiling point, initial boiling point, and boiling range Not determined

Flash point > 200.0 °F (> 93.3 °C) Setaflash Closed Cup

Auto-ignition temperature Not determined

Flammability (solid, gas) Not available.

Flammability limit - lower (%) Not determined

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not determined

Vapor density >= 1 (air = 1.0)

Evaporation rate Not determined

Relative density Not available.

Solubility Soluble in water

Partition coefficient (n-octanol/water) Not available.

Decomposition temperature Not available.

Viscosity >= 3 cP

Other data

Oxidizing properties Not determined

VOC (Weight %) < 313 g/l

10. Stability and reactivity

Reactivity Not available.

Stability Stable under recommended storage conditions.

Conditions to avoid None.

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. Decomposition of this product may yield oxides of phosphorus.

Possibility of hazardous reactions Will not occur.

11. Toxicological information

Routes of exposure Not available.

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

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

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

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

Toxic to reproduction Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

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

Other 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.
### 12. Ecological information

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magenta ink (CAS Mixture)</td>
<td>Aquatic Fathead minnow (Pimephales promelas)</td>
<td>LC50 &gt; 750 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

- Not available.

#### Bioaccumulation

- **Bioaccumulative potential**
  - Octanol/water partition coefficient log Kow: 2-pyrrolidone = -0.85

#### Mobility

- Not available.

#### Other hazardous effects

- Not available.

### 13. Disposal considerations

#### Disposal methods/information

- 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](http://www.hp.com/recycle).

- Special precautions: Not available.

### 14. Transport information

- **DOT**: Not regulated as dangerous goods.
- **IATA**: Not regulated as dangerous goods.
- **IMDG**: Not regulated as dangerous goods.
- **ADR**: Not regulated as dangerous goods.

### 15. Regulatory information

- **Applicable regulations**
  - Basel Convention: Not applicable.
  - Kyoto protocol: Not applicable.
  - Montreal Protocol: Not applicable.
  - Rotterdam Convention: Not applicable.
  - Stockholm Convention: Not applicable.

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

References
Not available.

Issued by
HP

Prepared by
HP

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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
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REL  Recommended Exposure Limit
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TLV  Threshold Limit Value
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