SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture: CB337 Series[C][3]

Registration number: -

Synonyms: None.

Issue date: 17-Jun-2015

Version number: 03

Revision date: 18-May-2016

Supersedes date: 04-Sep-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Inkjet printing

Uses advised against: None known.

Company identification: HP Inc UK Limited

Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03)

Bracknell, United Kingdom RG12 1HN

Telephone 44 (0) 879 013 0790

HP Inc. health effects line

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

(Direct) 1-760-710-0048

HP Inc. Customer Care Line

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

Poison Information Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 1,5-pentanediol, 2-pyrrolidone, Cyan 854, Magnesium nitrate hexahydrate, Water

Hazard pictograms: None.

Signal word: None.

Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements

Prevention: Not available.

Response: Not available.

Storage: Not available.

Disposal: Not available.

Supplemental label information: None.

2.3. 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
### General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>65-75</td>
<td>7732-18-5 &lt;br&gt; 231-791-2</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>&lt;10</td>
<td>111-29-5 &lt;br&gt; 203-854-4</td>
<td>01-2119449341-44-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-pyrrolidone</td>
<td>&lt; 7.5</td>
<td>616-45-5 &lt;br&gt; 210-483-1</td>
<td>01-2119475471-37-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyan 854</td>
<td>&lt; 5</td>
<td>375380-28-2 &lt;br&gt; 428-120-2</td>
<td>01-0000017445-69-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>Eye Dam. 1; H318</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate</td>
<td>&lt; 5</td>
<td>10377-60-3 &lt;br&gt; 233-826-7</td>
<td>01-2119491164-38-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Composition comments

This ink supply contains an aqueous ink formulation.

### SECTION 4: First aid measures

#### General information

Not available.

#### 4.1. Description of 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Not available.

#### 4.3. Indication of any immediate medical attention needed

Not available.

### SECTION 5: Firefighting measures

#### General fire hazards

Not available.

#### 5.1. Extinguishing media

**Suitable extinguishing media**

For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

**Unsuitable extinguishing media**

None known.

#### 5.2. Special hazards arising from the substance or mixture

Not available.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters**

Not available.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
- For non-emergency personnel: Wear appropriate personal protective equipment.
- For emergency responders: Not available.

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

6.3. Methods and material for containment and cleaning up
- Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other sections
- Not available.

SECTION 7: Handling and storage

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

7.2. Conditions for safe storage, including any incompatibilities
- Keep out of the reach of children. Keep away from excessive heat or cold.

7.3. Specific end use(s)
- Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
- Occupational exposure limits: No exposure limits noted for ingredient(s).
- Biological limit values: No biological exposure limits noted for the ingredient(s).
- Derived no-effect level (DNEL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Consumers</td>
<td>Dermal</td>
<td>6 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>167 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>17.1 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>5.2 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>33.3 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>277 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>10 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>57.8 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Consumers</td>
<td>Dermal</td>
<td>12.5 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>10.9 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>12.5 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>20.8 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>36.7 mg/m3</td>
<td>Systemic long term</td>
</tr>
</tbody>
</table>

8.2. Recommended monitoring procedures
- Not available.

8.3. Predicted no effect concentrations (PNECs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>0.5 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.05 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sediment</td>
<td>0.4205 mg/kg</td>
<td>Freshwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0.0612 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>10 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.45 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>4.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.045 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>18 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
</tbody>
</table>
Exposure guidelines

Exposure limits have not been established for this product.

8.2. Exposure controls

Appropriate engineering controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

General information

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

Eye/face protection

Not available.

Skin protection

- Hand protection
  Not available.

- Other
  Not available.

Respiratory protection

Not available.

Thermal hazards

Not available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state
  Liquid.

- Color
  Cyan

Odor

Not available.

Odor threshold

Not available.

pH

6.2 - 6.8

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not determined

Flash point

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

Evaporation rate

Not determined

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not determined

Flammability limit - upper (%) Not available.

Vapor pressure

Not determined

Solubility(ies)

Solubility (water) Soluble in water

Solubility (other) Not available.

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

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

>= 2 cp

Explosive properties

Not available.

Oxidizing properties

Not determined

9.2. Other information

VOC (Weight %) < 221 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Not available.

10.5. Incompatible materials

Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information
Not available.

11.1. Information on toxicological effects

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

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

Serious eye damage/eye 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.

Reproductive toxicity
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.

<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>Acute</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>6500 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Mixture versus substance information
Not available.

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.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB337 Series[C][3]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Not available.

12.3. Bioaccumulative potential
Not available.

<table>
<thead>
<tr>
<th>Partition coefficient</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-octanol/water (log Kow)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
Not available.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
Not available.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste: Not available.
Contaminated packaging: Not available.
EU waste code: Not available.
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.

SECTION 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.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
  Not listed.

Authorizations
- Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization
  Not listed.

Restrictions on use
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
  Not regulated.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Not regulated.

Directive 94/33/EC on the protection of young people at work
Not regulated.

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.

Other information
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.


National regulations
Not available.

15.2. Chemical safety assessment
See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References
Not available.

Information on evaluation method leading to the classification of mixture
Not available.

Issue date
17-Jun-2015

Revision information
None.

Training information
Not available.

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.

Manufacturer information
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020
<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>
</tbody>
</table>

List of abbreviations: Not available.
Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured. Do not eat, drink or smoke when using this product. Use personal protective equipment as required.

Wash hands before breaks and after work.

Avoid direct contact.

Regular cleaning of equipment and work area.

Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions followed.

Avoid breathing mist/vapours.

Avoid contact with skin, eyes and clothing.

Eye wash fountain and emergency showers are recommended.

In case of inadequate ventilation wear respiratory protection.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Ensure collection and disposal with appropriately licenced waste contractor.

Use personal protective equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.

Environmental measures

Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Ensure collection and disposal with appropriately licenced waste contractor.

Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

PC18-Inks and Toners

PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3-Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities

ERC5-Use at industrial site leading to inclusion into/onto article

ERC8c-Widespread use leading to inclusion into/onto article (indoor)

Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.

Most of the water based inks are "not classified".

The classification of the mixture is based on the individual ingredients and their concentration within the mixture.

All ingredients contributing to the classification are stated in Section 3 of the SDS.

Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people.

Section 2 of the SDS states these ingredients where applicable.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture: CB337 Series[M][3]
Registration number: -
Synonyms: None.
Issue date: 17-Jun-2015
Version number: 03
Revision date: 18-May-2016
Supersedes date: 04-Sep-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Inkjet printing
Uses advised against: None known.

Company identification:
HP Inc UK Limited
Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03)
Bracknell, United Kingdom RG12 1HN
Telephone 44 (0) 879 013 0790
HP Inc. health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Inc. Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com
Poison Information Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended
Contains: 1,5-pentanediol, 2-pyrrolidone, Magnesium nitrate hexahydrate, Water
Hazard pictograms: None.
Signal word: None.
Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements
Prevention: Not available.
Response: Not available.
Storage: Not available.
Disposal: Not available.

Supplemental label information: None.

2.3. 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
### General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>65-75</td>
<td>7732-18-5, 231-791-2</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>&lt;10</td>
<td>111-29-5, 203-854-4</td>
<td>01-211949341-44-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>&lt; 7.5</td>
<td>616-45-5, 210-483-1</td>
<td>01-2119475471-37-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate</td>
<td>&lt; 5</td>
<td>10377-60-3, 233-826-7</td>
<td>01-2119491164-38-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Composition comments**

This ink supply contains an aqueous ink formulation.

### SECTION 4: First aid measures

**General information**

Not available.

**4.1. Description of first aid measures**

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

- **Skin contact**
  - Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

- **Eye 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.

**4.2. Most important symptoms and effects, both acute and delayed**

Not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Not available.

### SECTION 5: Firefighting measures

**General fire hazards**

Not available.

**5.1. Extinguishing media**

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

- **Unsuitable extinguishing media**
  - None known.

**5.2. Special hazards arising from the substance or mixture**

Not available.

**5.3. Advice for firefighters**

- **Special protective equipment for firefighters**
  - Not available.

- **Special fire fighting procedures**
  - Not available.

**Specific methods**

None established.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel
   Wear appropriate personal protective equipment.
   For emergency responders
   Not available.

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

6.3. Methods and material for containment and cleaning up
   Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other sections
   Not available.

SECTION 7: Handling and storage

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

7.2. Conditions for safe storage, including any incompatibilities
   Keep out of the reach of children. Keep away from excessive heat or cold.

7.3. Specific end use(s)
   Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
   Occupational exposure limits
   No exposure limits noted for ingredient(s).
   Biological limit values
   No biological exposure limits noted for the ingredient(s).
   Recommended monitoring procedures
   Not available.

   Derived no-effect level (DNEL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Consumers</td>
<td>Dermal</td>
<td>6 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>167 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>17.1 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>5.2 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>33.3 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>277 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>10 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>57.8 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Consumers</td>
<td>Inhalation</td>
<td>10.9 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>12.5 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>20.8 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>36.7 mg/m3</td>
<td>Systemic long term</td>
</tr>
</tbody>
</table>

   Predicted no effect concentrations (PNECs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>0.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.05 mg/l</td>
<td>Freshwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sediment</td>
<td>0.4205 mg/kg</td>
<td>Freshwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0.0612 mg/kg</td>
<td>Freshwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>10 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.45 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>4.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.045 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>18 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
</tbody>
</table>

   Exposure guidelines
   None established.
Appropriate engineering controls
Use in a well ventilated area.

Individual protection measures, such as personal protective equipment
General information Use personal protective equipment to minimize exposure to skin and eye.
Eye/face protection Not available.
Skin protection
- Hand protection Not available.
- Other Not available.
Respiratory protection Not available.
Thermal hazards Not available.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
Physical state Liquid.
Color Magenta
Odor Not available.
Odor threshold Not available.
pH 6.2 - 6.8
Melting point/freezing point Not available.
Initial boiling point and boiling range Not determined
Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate Not determined
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits
Flammability limit - lower (%) Not determined
Flammability limit - upper (%) Not available.
Vapor pressure Not determined
Solubility(ies)
Solubility (water) Soluble in water
Solubility (other) Not available.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity >= 2 cp
Explosive properties Not available.
Oxidizing properties Not determined

9.2. Other information
VOC (Weight %) < 221 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.
10.2. Chemical stability Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions Will not occur.
10.4. Conditions to avoid Not available.
10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
SECTION 11: Toxicological information

General information

11.1. Information on toxicological effects

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

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

Serious eye damage/eye 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.

Reproductive toxicity
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.

Components

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

Mixture versus substance information
Not available.

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.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Test Results</th>
<th>Species</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic</td>
<td></td>
<td>CB337 Series[M][3]</td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td>Fathead minnow (Pimephales promelas) &lt; 400 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Components

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

12.2. Persistence and degradability
Not available.

12.3. Bioaccumulative potential
Not available.

Partition coefficient n-octanol/water (log Kow)
2-pyrrolidone -0.85

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
Not available.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste: Not available.
Contaminated packaging: Not available.
EU waste code: Not available.
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.

SECTION 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.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
  Not listed.

Authorizations
- Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization
  Not listed.

Restrictions on use
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
  Not regulated.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
  Not regulated.
Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Not regulated.

Directive 94/33/EC on the protection of young people at work
Not regulated.

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.

Other information
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations
Not available.

15.2. Chemical safety assessment
See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References
Not available.

Information on evaluation method leading to the classification of mixture
Not available.

Issue date
17-Jun-2015

Revision information
None.

Training information
Not available.

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.

Manufacturer information
HP Inc.
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>
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</tbody>
</table>

**List of abbreviations**

Not available.
Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *English*

Disclaimer
This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.
The REACH registration number(s), where applicable, completes an extended product SDS.

Operational conditions

<table>
<thead>
<tr>
<th>Maximum duration</th>
<th>&lt; 240 days per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency exposure</td>
<td>Up to 8 hours per day</td>
</tr>
</tbody>
</table>

Process conditions
Covers use at ambient temperatures.
Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace.
Avoid direct contact.
Regular cleaning of equipment and work area.
Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions followed.

Risk management measures

Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation
Wear safety glasses with side shields (or goggles), if splashing is possible.
Wear appropriate chemical resistant gloves: see section 8 of the SDS.
Wear appropriate chemical resistant clothing.
In case of inadequate ventilation wear respiratory protection.
Eye wash fountain and emergency showers are recommended.
Avoid breathing mist/vapours.
Avoid contact with skin, eyes and clothing.
Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.

Good practice advice
Use personal protective equipment as required.
Wash hands before breaks and after work.
Keep good industrial hygiene and safety practice.
Use only with adequate ventilation.
Do no eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.
Store at room temperature.

Environmental measures
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.
Ensure collection and disposal with appropriately licenced waste contractor.

Use descriptors
IS-Use at industrial sites
PW-Widespread use by professional workers
SU7-Printing and reproduction media
PC18-Inks and Toners
PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3-Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities
ERC5-Use at industrial site leading to inclusion into/onto article
ERC8c-Widespread use leading to inclusion into/onto article (indoor)

Additional information on product composition
In section 2 of the SDS as well as on the label, the classification of the mixture is provided.
Most of the water based inks are "not classified". The classification of the mixture is based on the individual ingredients and their concentration within the mixture.
All ingredients contributing to the classification are stated in Section 3 of the SDS.
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.
Section 2 of the SDS states these ingredients where applicable.
SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name or designation of the mixture: CB337 Series
Registration number: -
Synonyms: None.
Issue date: 17-Jun-2015
Version number: 03
Revision date: 18-May-2016
Supersedes date: 04-Sep-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Inkjet printing
Uses advised against: None known.

Company identification:
HP Inc UK Limited
Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03)
Bracknell, United Kingdom RG12 1HN
Telephone 44 (0) 879 013 0790
HP Inc. health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Inc. Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com
Poison Information Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 as amended
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Contains: 1,5-pentanediol, 2-pyrrolidone, Magnesium nitrate hexahydrate, Water
Hazard pictograms: None.
Signal word: None.
Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements
Prevention: Not available.
Response: Not available.
Storage: Not available.
Disposal: Not available.

Supplemental label information: None.

2.3. 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>65-75</td>
<td>7732-18-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>231-791-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>&lt;10</td>
<td>111-29-5</td>
<td>01-2119449341-44-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>203-854-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>&lt; 7.5</td>
<td>616-45-5</td>
<td>01-2119475471-37-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>210-483-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate</td>
<td>&lt; 5</td>
<td>10377-60-3</td>
<td>01-2119491164-38-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>233-826-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Composition comments
This ink supply contains an aqueous ink formulation.

SECTION 4: First aid measures

General information
Not available.

4.1. Description of first aid measures

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

Skin contact
Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

Eye 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.

4.2. Most important symptoms and effects, both acute and delayed
Not available.

4.3. Indication of any immediate medical attention and special treatment needed
Not available.

SECTION 5: Firefighting measures

General fire hazards
Not available.

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

Unsuitable extinguishing media
None known.

5.2. Special hazards arising from the substance or mixture
Not available.

5.3. Advice for firefighters
Special protective equipment for firefighters
Not available.

Special fire fighting procedures
Not available.

Specific methods
None established.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel
   Wear appropriate personal protective equipment.
   For emergency responders
   Not available.

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

6.3. Methods and material for containment and cleaning up
   Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other sections
   Not available.

SECTION 7: Handling and storage

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

7.2. Conditions for safe storage, including any incompatibilities
   Keep out of the reach of children. Keep away from excessive heat or cold.

7.3. Specific end use(s)
   Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
   Occupational exposure limits
   No exposure limits noted for ingredient(s).
   Biological limit values
   No biological exposure limits noted for the ingredient(s).
   Recommended monitoring procedures
   Not available.

Derived no-effect level (DNEL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Consumers</td>
<td>Dermal</td>
<td>6 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>167 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>17.1 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>5.2 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>33.3 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>277 mg/kg bw/d</td>
<td>Systemic acute short term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal</td>
<td>10 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>57.8 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Consumers</td>
<td>Inhalation</td>
<td>10.9 mg/m3</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral</td>
<td>12.5 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>20.8 mg/kg bw/d</td>
<td>Systemic long term</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation</td>
<td>36.7 mg/m3</td>
<td>Systemic long term</td>
</tr>
</tbody>
</table>

Predicted no effect concentrations (PNECs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>0.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.05 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sediment</td>
<td>0.4205 mg/kg</td>
<td>Freshwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0.0612 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>10 mg/l</td>
<td></td>
</tr>
<tr>
<td>Magnesium nitrate hexahydrate (CAS 10377-60-3)</td>
<td>Not applicable</td>
<td>Freshwater</td>
<td>0.45 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermittant</td>
<td>4.5 mg/l</td>
<td>Releases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.045 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STP</td>
<td>18 mg/l</td>
<td>Sewage Treatment Plant</td>
</tr>
</tbody>
</table>

Exposure guidelines
   None established.

8.2. Exposure controls
Appropriate engineering controls
Use in a well ventilated area.

Individual protection measures, such as personal protective equipment
General information Use personal protective equipment to minimize exposure to skin and eye.
Eye/face protection Not available.
Skin protection
- Hand protection Not available.
- Other Not available.
Respiratory protection Not available.
Thermal hazards Not available.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
Physical state Liquid.
Color Yellow
Odor Not available.
Odor threshold Not available.
pH 6.2 - 6.8
Melting point/freezing point Not available.
Initial boiling point and boiling range Not determined
Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate Not determined
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits
Flammability limit - lower (%) Not determined
Flammability limit - upper (%) Not available.
Vapor pressure Not determined
Solubility(ies)
Solubility (water) Soluble in water
Solubility (other) Not available.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity >= 2 cp
Explosive properties Not available.
Oxidizing properties Not determined
9.2. Other information
VOC (Weight %) < 221 g/L

SECTION 10: Stability and reactivity
10.1. Reactivity Not available.
10.2. Chemical stability Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions Will not occur.
10.4. Conditions to avoid Not available.
10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
SECTION 11: Toxicological information

General information Not available.

11.1. Information on toxicological effects

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

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

Serious eye damage/eye 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.

Reproductive toxicity 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.

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

Acute

Oral

LD50

Guinea pig 6500 mg/kg

Rat 6500 mg/kg

Mixture versus substance information Not available.

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.

SECTION 12: Ecological information

12.1. Toxicity

Product | Species | Test Results
---|---|---
CB337 Series[Y][3]

Aquatic

Acute

Fish

LC50

Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

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

Aquatic

Crustacea

EC50

Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

12.2. Persistence and degradability Not available.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
SECTION 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.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
Not listed.
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
Not listed.
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
Not listed.
Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
Not listed.

Authorizations
Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization
Not listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
Not regulated.
Other EU regulations

- **Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**
  Not regulated.

- **Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**
  Not regulated.

- **Directive 94/33/EC on the protection of young people at work**
  Not regulated.

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.

Other information
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.


National regulations
Not available.

15.2. Chemical safety assessment
See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References
Not available.

Information on evaluation method leading to the classification of mixture
Not available.

Issue date
17-Jun-2015

Revision information
None.

Training information
Not available.

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.

Manufacturer information
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020
<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>
</tbody>
</table>

**List of abbreviations**

Not available.
**Safe Use of Mixture Information (SUMI)**

---

**Water Based Ink: WB01  *English***

**Disclaimer**

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.

The REACH registration number(s), where applicable, completes an extended product SDS.

**Operational conditions**

<table>
<thead>
<tr>
<th>Maximum duration</th>
<th>Up to 8 hours per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency of exposure</td>
<td>&lt; 240 days per year</td>
</tr>
<tr>
<td>Process conditions</td>
<td>Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place and are being correctly used and Operational Conditions followed.</td>
</tr>
</tbody>
</table>

**Risk management measures**

<table>
<thead>
<tr>
<th>Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear safety glasses with side shields (or goggles), if splashing is possible.</td>
</tr>
<tr>
<td>Wear appropriate chemical resistant gloves: see section 8 of the SDS.</td>
</tr>
<tr>
<td>Wear appropriate chemical resistant clothing.</td>
</tr>
<tr>
<td>In case of inadequate ventilation wear respiratory protection.</td>
</tr>
<tr>
<td>Eye wash fountain and emergency showers are recommended.</td>
</tr>
<tr>
<td>Avoid breathing mist/vapours.</td>
</tr>
<tr>
<td>Avoid contact with skin, eyes and clothing.</td>
</tr>
<tr>
<td>Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</td>
</tr>
</tbody>
</table>

**Good practice advice**

Use personal protective equipment as required.
Wash hands before breaks and after work.
Keep good industrial hygiene and safety practice.
Use only with adequate ventilation.
Do no eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.
Store at room temperature.

**Environmental measures**

Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.
Ensure collection and disposal with appropriately licenced waste contractor.

**Use descriptors**

<table>
<thead>
<tr>
<th>IS-Use at industrial sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW-Widespread use by professional workers</td>
</tr>
<tr>
<td>SU7-Printing and reproduction media</td>
</tr>
<tr>
<td>PC18-Inks and Toners</td>
</tr>
<tr>
<td>PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</td>
</tr>
<tr>
<td>PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</td>
</tr>
<tr>
<td>PROC3-Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</td>
</tr>
<tr>
<td>PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</td>
</tr>
<tr>
<td>PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities</td>
</tr>
<tr>
<td>ERC5-Use at industrial site leading to inclusion into/onto article</td>
</tr>
<tr>
<td>ERC8c-Widespread use leading to inclusion into/onto article (indoor)</td>
</tr>
</tbody>
</table>

**Additional information on product composition**

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.
Most of the water based inks are "not classified".
The classification of the mixture is based on the individual ingredients and their concentration within the mixture.
All ingredients contributing to the classification are stated in Section 3 of the SDS.
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.
Section 2 of the SDS states these ingredients where applicable.