



# 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** CN052Series  
**Registration number** -  
**Synonyms** None.  
**Issue date** 07-May-2015  
**Version number** 03  
**Revision date** 05-Nov-2015  
**Supersedes date** 23-Aug-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  
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Bracknell, United Kingdom RG12 1HN  
Telephone 44 (0) 879 013 0790  
  
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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-(2-hydroxyethyl)-2-pyrrolidone, 2-pyrrolidone, Aliphatic diol, Water, Yellow colorant  
**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** Contains 1,2-Benzisothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

### 2.3. Other hazards

Complete toxicity data are not available for this specific formulation. 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. 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.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**General information**

| Chemical name                    | %                 | CAS-No. / EC No.       | REACH Registration No. | Index No. | Notes |
|----------------------------------|-------------------|------------------------|------------------------|-----------|-------|
| Water                            | 70-80             | 7732-18-5<br>231-791-2 | -                      | -         |       |
| <b>Classification:</b>           | -                 |                        |                        |           |       |
| 1-(2-hydroxyethyl)-2-pyrrolidone | < 10              | 3445-11-2<br>222-359-4 | 01-2119977089-21-XXXX  | -         |       |
| <b>Classification:</b>           | -                 |                        |                        |           |       |
| 2-pyrrolidone                    | < 7.5             | 616-45-5<br>210-483-1  | 01-2119475471-37-XXXX  | -         |       |
| <b>Classification:</b>           | Eye Irrit. 2;H319 |                        |                        |           |       |
| Aliphatic diol                   | < 5               | Proprietary<br>-       | 01-2119449814-31-XXXX  | -         |       |
| <b>Classification:</b>           | -                 |                        |                        |           |       |
| Yellow colorant                  | < 5               | Proprietary<br>-       | -                      | -         |       |
| <b>Classification:</b>           | -                 |                        |                        |           |       |

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

**SECTION 4: First aid measures**

**General information** Wash affected areas thoroughly with mild soap and water.

**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. 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, CO<sub>2</sub>, 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.

|   |                   |
|---|-------------------|
| <b>Special fire fighting procedures</b> | Not available.    |
| <b>Specific methods</b>                 | None established. |

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                                    |   |
|------------------------------------|---|
| <b>For non-emergency personnel</b> | Wear appropriate personal protective equipment. |
| <b>For emergency responders</b>    | 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.

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## 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |  |
|--|--|
| <b>Occupational exposure limits</b>      | No exposure limits noted for ingredient(s).                |
| <b>Biological limit values</b>           | No biological exposure limits noted for the ingredient(s). |
| <b>Recommended monitoring procedures</b> | Not available.   |
| <b>Derived no-effect level (DNEL)</b>    | Not available.   |

**Predicted no effect concentrations (PNECs)** Not available.

**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

|                               |   |
|-------------------------------|---|
| <b>General information</b>    | Use personal protective equipment to minimize exposure to skin and eye. |
| <b>Eye/face protection</b>    | Not available.  |
| <b>Skin protection</b>        |   |
| - Hand protection             | Not available.  |
| - Other                       | Not available.  |
| <b>Respiratory protection</b> | Not available.  |
| <b>Thermal hazards</b>        | Not available.  |

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

**Environmental exposure controls** Not available.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

|                       |         |
|-----------------------|---------|
| <b>Physical state</b> | Liquid. |
| <b>Color</b>          | Yellow  |

**Odor** Not available.

**Odor threshold** Not available.

**pH** 8.5 - 9.5

|   |  |
|---|--|
| <b>Melting point/freezing point</b>                 | Not available.   |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020 |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Not available.   |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.   |
| <b>Flammability limit - upper (%)</b>               | Not available.   |
| <b>Vapor pressure</b>                               | Not available.   |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Not available.   |
| <b>Solubility (other)</b>                           | Not available.   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.   |
| <b>Auto-ignition temperature</b>                    | Not available.   |
| <b>Decomposition temperature</b>                    | Not available.   |
| <b>Viscosity</b>                                    | 3.2 - 3.3 cP   |
| <b>Explosive properties</b>                         | Not available.   |
| <b>Oxidizing properties</b>                         | Not available.   |
| <b>9.2. Other information</b>                       |  |
| <b>VOC (Weight %)</b>                               | < 297 g/L  |

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## SECTION 10: Stability and reactivity

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

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## SECTION 11: Toxicological information

|   |   |
|---|---|
| <b>General information</b>                                | Not available.  |
| <b>11.1. Information on toxicological effects</b>         |   |
| <b>Acute toxicity</b>                                     | Based on available data, the classification criteria are not met. |
| <b>Skin corrosion/irritation</b>                          | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b>                  | Based on available data, the classification criteria are not met. |
| <b>Respiratory sensitization</b>                          | Based on available data, the classification criteria are not met. |
| <b>Skin sensitization</b>                                 | Based on available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>                             | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                                    | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>                              | Based on available data, the classification criteria are not met. |
| <b>Specific target organ toxicity - single exposure</b>   | Based on available data, the classification criteria are not met. |
| <b>Specific target organ toxicity - repeated exposure</b> | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met. |

| Components                                  | Species   | Test Results  |
|---|---|---------------|
| 2-pyrrolidone (CAS 616-45-5)                |   |               |
| <b>Acute</b>                                |   |               |
| <i>Oral</i>                                 |   |               |
| LD50  | Guinea pig  | 6500 mg/kg    |
|   | Rat   | 6500 mg/kg    |
| Aliphatic diol (CAS Proprietary)            |   |               |
| <b>Acute</b>                                |   |               |
| <i>Dermal</i>                               |   |               |
| LD50  | Rabbit  | > 10000 mg/kg |
| <i>Oral</i>                                 |   |               |
| LD50  | Rat   | 3730 mg/kg    |
| <i>Other</i>                                |   |               |
| LD50  | Mouse   | 1738 mg/kg    |
| <b>Mixture versus substance information</b> | Not available.  |               |
| <b>Other information</b>                    | Complete toxicity data are not available for this specific formulation<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |               |

## SECTION 12: Ecological information

**12.1. Toxicity** This product is highly soluble in water.

| Components   | Species                                 | Test Results         |
|--|---|----------------------|
| 2-pyrrolidone (CAS 616-45-5)                           |   |                      |
| <b>Aquatic</b>   |   |                      |
| Crustacea  | EC50 Water flea (Daphnia pulex)         | 13.21 mg/l, 48 hours |
| <b>12.2. Persistence and degradability</b>             | Not available.                          |                      |
| <b>12.3. Bioaccumulative potential</b>                 | Not available.                          |                      |
| <b>Partition coefficient n-octanol/water (log Kow)</b> |   |                      |
| 2-pyrrolidone  | -0.85                                   |                      |
| Aliphatic diol   | -0.106                                  |                      |
| <b>Bioconcentration factor (BCF)</b>                   | Not available.                          |                      |
| <b>12.4. Mobility in soil</b>                          | Not available.                          |                      |
| <b>12.5. Results of PBT and vPvB assessment</b>        | Not a PBT or vPvB substance or mixture. |                      |
| <b>12.6. Other adverse effects</b>                     | Not available.                          |                      |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |   |
|-------------------------------------|---|
| <b>Residual waste</b>               | Not available.  |
| <b>Contaminated packaging</b>       | Not available.  |
| <b>EU waste code</b>                | Not available.  |
| <b>Disposal methods/information</b> | Do not allow this material to drain into sewers/water supplies.<br>Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.<br><br>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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> . |

## 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.

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## 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.

##### **Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

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.

|                          |  |
|--------------------------|--|
| <b>Other information</b> | This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).<br>Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). |
|--------------------------|--|

|                             |                |
|-----------------------------|----------------|
| <b>National regulations</b> | Not available. |
|-----------------------------|----------------|

|   |                |
|---|----------------|
| <b>15.2. Chemical safety assessment</b> | Not available. |
|---|----------------|

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## SECTION 16: Other information

|                   |                |
|-------------------|----------------|
| <b>References</b> | Not available. |
|-------------------|----------------|

|  |                |
|--|----------------|
| <b>Information on evaluation method leading to the classification of mixture</b> | Not available. |
|--|----------------|

|                   |             |
|-------------------|-------------|
| <b>Issue date</b> | 07-May-2015 |
|-------------------|-------------|

|                             |  |
|-----------------------------|--|
| <b>Revision information</b> | Composition/Information on Ingredients |
|-----------------------------|--|

|                             |                |
|-----------------------------|----------------|
| <b>Training information</b> | Not available. |
|-----------------------------|----------------|

|                   |   |
|-------------------|---|
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|-------------------|---|

|                                 |   |
|---------------------------------|---|
| <b>Manufacturer information</b> | HP<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112 US<br>Direct 1-650-857-5020 |
|---------------------------------|---|

## Explanation of abbreviations

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

|                              |                |
|------------------------------|----------------|
| <b>List of abbreviations</b> | Not available. |
|------------------------------|----------------|