

CH614Series[LM][2]-SDS\_CHILE-English-27.pdf

CH614Series[M][2]-SDS\_CHILE-English-33.pdf



# SAFETY DATA SHEET

## 1. Identification of the chemical product and of the supplier

|  |   |  |
|--|---|--|
| <b>Important information</b>                                   | *** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. *** |  |
| <b>Identification of the chemical product</b>                  | CH614Series[LM][2]  |  |
| <b>Other means of identification</b>                           | None.   |  |
| <b>Recommended use of the chemical and restrictions on use</b> |   |  |
| <b>Recommended use</b>   | Inkjet printing   |  |
| <b>Recommended restrictions</b>                                | None known.   |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b>  | HP Inc Chile Comercial Limitada<br>Mariano Sanchez Fontecilla 310, Piso 13<br>Santiago, Chile 7550296   |  |
| <b>Telephone:</b>  | 56-2-333-0978   |  |
| <b>HP Inc. health effects line</b>                             |   |  |
| (Toll-free within the US)                                      | 1-800-457-4209  |  |
| (Direct)   | 1-760-710-0048  |  |
| <b>HP Inc. Customer Care Line</b>                              |   |  |
| (Toll-free within the US)                                      | 1-800-474-6836  |  |
| (Direct)   | 1-208-323-2551  |  |
| <b>Email:</b>  | hpcustomer.inquiries@hp.com   |  |

## 2. Hazards identification

### Classification according to GHS

|                              |   |             |
|------------------------------|---|-------------|
| <b>Physical hazards</b>      | Not classified.                                     |             |
| <b>Health hazards</b>        | Reproductive toxicity (fertility, the unborn child) | Category 1B |
| <b>Environmental hazards</b> | Not classified.                                     |             |

### Label elements



|                                |  |
|--------------------------------|--|
| <b>Signal word</b>             | Danger   |
| <b>Hazard statement</b>        | May damage fertility or the unborn child.  |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. |
| <b>Response</b>                | IF exposed or concerned: Get medical advice/attention.   |
| <b>Storage</b>                 | Store locked up.   |
| <b>Disposal</b>                | Dispose of contents/container in accordance with local/regional/national/international regulations.  |

### Safety signs according to NCh1411/4



|                                     |   |
|-------------------------------------|---|
| <b>Other hazards</b>                | Complete toxicity data are not available for this specific formulation.<br><br>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. |
| <b>GHS Supplemental information</b> | 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%.  |

### 3. Composition/information on ingredients

#### Mixture

#### Hazardous components

| Systematic chemical name | Common or generic name | CAS number | Concentration range |
|--------------------------|------------------------|------------|---------------------|
| 2-pyrrolidone            |                        | 616-45-5   | <20                 |

#### Non-hazardous components

| Systematic chemical name    | Common or generic name | CAS number  | Concentration range |
|-----------------------------|------------------------|-------------|---------------------|
| Water                       |                        | 7732-18-5   | 65-80               |
| Modified Magenta Pigment 46 |                        | Proprietary | <1                  |

|                             |   |
|-----------------------------|---|
| <b>Composition comments</b> | This ink supply contains an aqueous ink formulation.<br><br>2-pyrrolidone: Specific Concentration Limit 3%. |
|-----------------------------|---|

### 4. First-aid measures

|  |   |
|--|---|
| <b>Inhalation</b>  | Move to fresh air. If symptoms persist, get medical attention.  |
| <b>Skin contact</b>  | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.  |
| <b>Eye contact</b>   | Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention. |
| <b>Ingestion</b>   | If ingestion of a large amount does occur, seek medical attention.  |
| <b>Expected acute and delayed effects, most important symptoms</b> | Not available.  |
| <b>Special notes for treating physician</b>                        | Not available.  |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Extinguishing media</b>                                       | Dry chemical, CO2, water spray or regular foam. |
| <b>Inappropriate extinguishing media</b>                         | None known.                                     |
| <b>Products formed during combustion and thermal degradation</b> | Refer to section 10.                            |
| <b>Specific associated hazards</b>                               | Not applicable.                                 |
| <b>Specific extinguishing methods</b>                            | None established.                               |
| <b>Precautions for emergency personnel and/or firefighters</b>   | Not available.                                  |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Wear appropriate personal protective equipment.  |
| <b>Environmental precautions</b>   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. |
| <b>Methods and material for containment, confinement, and/or abatement</b> | Not available.   |
| <b>Methods and materials for clean-up</b>                                  | Not available.   |
| <b>Additional measures for preventing disasters</b>                        | Not available.   |

---

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid contact with skin, eyes and clothing.                               |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep out of the reach of children. Keep away from excessive heat or cold. |

---

## 8. Exposure controls/personal protection

|  |   |
|--|---|
| <b>Maximum permissible concentration</b>                                     | No exposure limits noted for ingredient(s).                             |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).              |
| <b>Exposure guidelines</b>   | Exposure limits have not been established for this product.             |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Respiratory protection</b>  | Not available.  |
| <b>Hand protection</b>   | Not available.  |
| <b>Other</b>   | Not available.  |
| <b>Eye protection</b>  | Not available.  |
| <b>Skin and body protection</b>  | Use personal protective equipment to minimize exposure to skin and eye. |
| <b>Engineering measures</b>  | Use in a well ventilated area.  |
| <b>Thermal hazards</b>   | Not available.  |
| <b>General hygiene considerations</b>  | Handle in accordance with good industrial hygiene and safety practice.  |

---

## 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   |   |
| <b>Physical state</b>                               | Liquid.   |
| <b>Form</b>   | Not available.                                    |
| <b>Color</b>  | Light Magenta                                     |
| <b>Odor</b>   | Not available.                                    |
| <b>pH</b>   | 8.2 - 8.7   |
| <b>Melting point/freezing point</b>                 | Not determined                                    |
| <b>Initial boiling point and boiling range</b>      | Not determined                                    |
| <b>Flash point</b>                                  | > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup |
| <b>Explosivity limits</b>                           | Not available.                                    |
| <b>Vapor pressure</b>                               | Not determined                                    |
| <b>Vapor density</b>                                | Not available.                                    |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | Soluble in water                                  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                    |
| <b>Auto-ignition temperature</b>                    | Not determined                                    |
| <b>Decomposition temperature</b>                    | Not available.                                    |
| <b>Odor threshold</b>                               | Not available.                                    |
| <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 determined                                    |
| <b>Flammability limit - upper (%)</b>               | Not available.                                    |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                    |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                    |
| <b>Viscosity</b>                                    | Not available.                                    |
| <b>Other information</b>                            |   |
| <b>Oxidizing properties</b>                         | Not determined                                    |

|                         |                |
|-------------------------|----------------|
| <b>Percent volatile</b> | 19 % estimated |
| <b>VOC</b>              | < 303 g/L      |

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin contact</b> | Contact with skin may result in mild irritation.   |
| <b>Eye contact</b>  | Contact with eyes may result in mild irritation.   |
| <b>Ingestion</b>    | Health injuries are not known or expected under normal use.  |

### Information on toxicological effects

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

| <b>Product</b> | <b>Species</b> | <b>Test Results</b> |
|----------------|----------------|---------------------|
|----------------|----------------|---------------------|

Light magenta ink

| <b>Components</b> | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

2-pyrrolidone (CAS 616-45-5)

#### Acute

#### **Oral**

LD50

Rat

> 5000 mg/kg

**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.  
Not classified as an irritant according to, OECD 405.

### Respiratory or skin sensitization

**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.  
Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

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

**Reproductive toxicity** May damage fertility or the unborn child.

2-pyrrolidone: This component showed developmental effects only at high, maternally toxic doses in test animals. Uptake by people of small doses is not expected to cause developmental toxicity.

**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.

**Related symptoms** Not available.

**Further information** Complete toxicity data are not available for this specific formulation  
Refer to Section 2 for potential health effects and Section 4 for first aid measures.

## 12. Ecological information

**Aquatic toxicity** This product has not been tested for ecological effects.

### Ecotoxicity

| <b>Product</b>    | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
| Light magenta ink |                |                     |

| 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>Persistence and degradability</b>               | Not available. |   |
| <b>Bioaccumulative potential</b>                   | Not available. |   |
| <b>Octanol/water partition coefficient log Kow</b> |                |   |
| 2-pyrrolidone                                      |                | -0.85   |
| <b>Mobility in soil</b>                            | Not available. |   |
| <b>Other adverse effects</b>                       | Not available. |   |

### 13. Disposal considerations

|   |   |
|---|---|
| <b>Remains/residues</b>   | Not available.  |
| <b>Contaminated container, packaging and contaminated materials</b> | Not available.  |
| <b>Disposal instructions</b>  | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. |

### 14. Transport information

#### DOT

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Environmental hazards</b>        |                |
| <b>Marine pollutant</b>             | No             |
| <b>Special precautions for user</b> | Not available. |

#### IATA

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Environmental hazards</b>        | No             |
| <b>Special precautions for user</b> | Not available. |

#### IMDG

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Transport hazard class(es)</b>   |                |
| <b>Marine pollutant</b>             | No             |
| <b>EmS</b>                          | Not available. |
| <b>Special precautions for user</b> | Not available. |

#### ADR

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number</b>                  | Not available. |
| <b>UN proper shipping name</b>    | Not Regulated  |
| <b>Transport hazard class(es)</b> |                |
| <b>Class</b>                      | Not available. |
| <b>Subsidiary risk</b>            | -              |
| <b>Hazard No. (ADR)</b>           | Not available. |

|                                     |  |
|-------------------------------------|--|
| <b>Tunnel restriction code</b>      | Not available.   |
| <b>Packing group</b>                | Not available.   |
| <b>Environmental hazards</b>        | No   |
| <b>Special precautions for user</b> | Not available.   |
| <b>Further information</b>          | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

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## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)

Not listed.

#### Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)

Not listed.

### International 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.

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Montreal Protocol

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

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## 16. Other information, including date of preparation or last revision

**Issue date** 01-Sep-2017

**Revision date** 28-Jan-2020

**Version #** 04

**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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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**Explanation of abbreviations**

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





# SAFETY DATA SHEET

## 1. Identification of the chemical product and of the supplier

|  |   |  |
|--|---|--|
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| <b>Identification of the chemical product</b>                  | CH614Series[M][2]   |  |
| <b>Other means of identification</b>                           | None.   |  |
| <b>Recommended use of the chemical and restrictions on use</b> |   |  |
| <b>Recommended use</b>   | Inkjet printing   |  |
| <b>Recommended restrictions</b>                                | None known.   |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b>  | HP Inc Chile Comercial Limitada<br>Mariano Sanchez Fontecilla 310, Piso 13<br>Santiago, Chile 7550296   |  |
| <b>Telephone:</b>  | 56-2-333-0978   |  |
| <b>HP Inc. health effects line</b>                             |   |  |
| (Toll-free within the US)                                      | 1-800-457-4209  |  |
| (Direct)   | 1-760-710-0048  |  |
| <b>HP Inc. Customer Care Line</b>                              |   |  |
| (Toll-free within the US)                                      | 1-800-474-6836  |  |
| (Direct)   | 1-208-323-2551  |  |
| <b>Email:</b>  | hpcustomer.inquiries@hp.com   |  |

## 2. Hazards identification

### Classification according to GHS

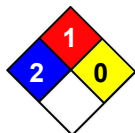
|                              |   |             |
|------------------------------|---|-------------|
| <b>Physical hazards</b>      | Not classified.                                     |             |
| <b>Health hazards</b>        | Reproductive toxicity (fertility, the unborn child) | Category 1B |
| <b>Environmental hazards</b> | Not classified.                                     |             |

### Label elements



|                                |  |
|--------------------------------|--|
| <b>Signal word</b>             | Danger   |
| <b>Hazard statement</b>        | May damage fertility or the unborn child.  |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. |
| <b>Response</b>                | IF exposed or concerned: Get medical advice/attention.   |
| <b>Storage</b>                 | Store locked up.   |
| <b>Disposal</b>                | Dispose of contents/container in accordance with local/regional/national/international regulations.  |

### Safety signs according to NCh1411/4



|                                     |   |
|-------------------------------------|---|
| <b>Other hazards</b>                | Complete toxicity data are not available for this specific formulation.<br><br>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. |
| <b>GHS Supplemental information</b> | 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%.  |

### 3. Composition/information on ingredients

#### Mixture

#### Hazardous components

| Systematic chemical name | Common or generic name | CAS number | Concentration range |
|--------------------------|------------------------|------------|---------------------|
| 2-pyrrolidone            |                        | 616-45-5   | <20                 |

#### Non-hazardous components

| Systematic chemical name    | Common or generic name | CAS number  | Concentration range |
|-----------------------------|------------------------|-------------|---------------------|
| Water                       |                        | 7732-18-5   | 60-80               |
| Modified Magenta Pigment 46 |                        | Proprietary | <5                  |

|                             |   |
|-----------------------------|---|
| <b>Composition comments</b> | This ink supply contains an aqueous ink formulation.<br><br>2-pyrrolidone: Specific Concentration Limit 3%. |
|-----------------------------|---|

### 4. First-aid measures

|  |   |
|--|---|
| <b>Inhalation</b>  | Move to fresh air. If symptoms persist, get medical attention.  |
| <b>Skin contact</b>  | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.  |
| <b>Eye contact</b>   | Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention. |
| <b>Ingestion</b>   | If ingestion of a large amount does occur, seek medical attention.  |
| <b>Expected acute and delayed effects, most important symptoms</b> | Not available.  |
| <b>Special notes for treating physician</b>                        | Not available.  |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Extinguishing media</b>                                       | Dry chemical, CO2, water spray or regular foam. |
| <b>Inappropriate extinguishing media</b>                         | None known.                                     |
| <b>Products formed during combustion and thermal degradation</b> | Refer to section 10.                            |
| <b>Specific associated hazards</b>                               | Not applicable.                                 |
| <b>Specific extinguishing methods</b>                            | None established.                               |
| <b>Precautions for emergency personnel and/or firefighters</b>   | Not available.                                  |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Wear appropriate personal protective equipment.  |
| <b>Environmental precautions</b>   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. |
| <b>Methods and material for containment, confinement, and/or abatement</b> | Not available.   |
| <b>Methods and materials for clean-up</b>                                  | Not available.   |
| <b>Additional measures for preventing disasters</b>                        | Not available.   |

---

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid contact with skin, eyes and clothing.                               |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep out of the reach of children. Keep away from excessive heat or cold. |

---

## 8. Exposure controls/personal protection

|  |   |
|--|---|
| <b>Maximum permissible concentration</b>                                     | No exposure limits noted for ingredient(s).                             |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).              |
| <b>Exposure guidelines</b>   | Exposure limits have not been established for this product.             |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Respiratory protection</b>  | Not available.  |
| <b>Hand protection</b>   | Not available.  |
| <b>Other</b>   | Not available.  |
| <b>Eye protection</b>  | Not available.  |
| <b>Skin and body protection</b>  | Use personal protective equipment to minimize exposure to skin and eye. |
| <b>Engineering measures</b>  | Use in a well ventilated area.  |
| <b>Thermal hazards</b>   | Not available.  |
| <b>General hygiene considerations</b>  | Handle in accordance with good industrial hygiene and safety practice.  |

---

## 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   |   |
| <b>Physical state</b>                               | Liquid.   |
| <b>Form</b>   | Not available.                                    |
| <b>Color</b>  | Magenta   |
| <b>Odor</b>   | Not available.                                    |
| <b>pH</b>   | Not available.                                    |
| <b>Melting point/freezing point</b>                 | Not determined                                    |
| <b>Initial boiling point and boiling range</b>      | Not determined                                    |
| <b>Flash point</b>                                  | > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup |
| <b>Explosivity limits</b>                           | Not available.                                    |
| <b>Vapor pressure</b>                               | Not determined                                    |
| <b>Vapor density</b>                                | Not available.                                    |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | Soluble in water                                  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                    |
| <b>Auto-ignition temperature</b>                    | Not determined                                    |
| <b>Decomposition temperature</b>                    | Not available.                                    |
| <b>Odor threshold</b>                               | Not available.                                    |
| <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 determined                                    |
| <b>Flammability limit - upper (%)</b>               | Not available.                                    |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                    |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                    |
| <b>Viscosity</b>                                    | Not available.                                    |
| <b>Other information</b>                            |   |
| <b>Oxidizing properties</b>                         | Not determined                                    |

|                         |                |
|-------------------------|----------------|
| <b>Percent volatile</b> | 19 % estimated |
| <b>VOC</b>              | < 306 g/L      |

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin contact</b> | Contact with skin may result in mild irritation.   |
| <b>Eye contact</b>  | Contact with eyes may result in mild irritation.   |
| <b>Ingestion</b>    | Health injuries are not known or expected under normal use.  |

### Information on toxicological effects

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

| <b>Components</b> | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

2-pyrrolidone (CAS 616-45-5)

#### Acute

##### **Oral**

|      |     |              |
|------|-----|--------------|
| LD50 | Rat | > 5000 mg/kg |
|------|-----|--------------|

**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. Not classified as an irritant according to, OECD 405.

### Respiratory or skin sensitization

**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. Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

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

**Reproductive toxicity** May damage fertility or the unborn child.

2-pyrrolidone: This component showed developmental effects only at high, maternally toxic doses in test animals. Uptake by people of small doses is not expected to cause developmental toxicity.

**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.

**Related symptoms** Not available.

**Further information** Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

## 12. Ecological information

**Aquatic toxicity** No information available.

### Ecotoxicity

| <b>Product</b> | <b>Species</b>      | <b>Test Results</b>  |
|----------------|---------------------|----------------------|
| Magenta ink    | LC50 Fathead Minnow | > 750 mg/l, 96 Hours |

| 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>Persistence and degradability</b>               | Not available. |                            |
| <b>Bioaccumulative potential</b>                   | Not available. |                            |
| <b>Octanol/water partition coefficient log Kow</b> |                |                            |
| 2-pyrrolidone                                      |                | -0.85                      |
| <b>Mobility in soil</b>                            | Not available. |                            |
| <b>Other adverse effects</b>                       | Not available. |                            |

### 13. Disposal considerations

|   |   |
|---|---|
| <b>Remains/residues</b>   | Not available.  |
| <b>Contaminated container, packaging and contaminated materials</b> | Not available.  |
| <b>Disposal instructions</b>  | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. |

### 14. Transport information

#### DOT

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Environmental hazards</b>        |                |
| <b>Marine pollutant</b>             | No             |
| <b>Special precautions for user</b> | Not available. |

#### IATA

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Environmental hazards</b>        | No             |
| <b>Special precautions for user</b> | Not available. |

#### IMDG

|                                     |                |
|-------------------------------------|----------------|
| <b>UN number</b>                    | Not available. |
| <b>UN proper shipping name</b>      | Not Regulated  |
| <b>Transport hazard class(es)</b>   |                |
| <b>Class</b>                        | Not available. |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | Not available. |
| <b>Transport hazard class(es)</b>   |                |
| <b>Marine pollutant</b>             | No             |
| <b>EmS</b>                          | Not available. |
| <b>Special precautions for user</b> | Not available. |

#### ADR

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number</b>                  | Not available. |
| <b>UN proper shipping name</b>    | Not Regulated  |
| <b>Transport hazard class(es)</b> |                |
| <b>Class</b>                      | Not available. |
| <b>Subsidiary risk</b>            | -              |
| <b>Hazard No. (ADR)</b>           | Not available. |

|                                     |  |
|-------------------------------------|--|
| <b>Tunnel restriction code</b>      | Not available.   |
| <b>Packing group</b>                | Not available.   |
| <b>Environmental hazards</b>        | No   |
| <b>Special precautions for user</b> | Not available.   |
| <b>Further information</b>          | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

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## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)

Not listed.

#### Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)

Not listed.

### International 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.

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Montreal Protocol

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

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## 16. Other information, including date of preparation or last revision

**Issue date** 31-Aug-2017

**Revision date** 29-Jan-2020

**Version #** 03

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**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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**Explanation of abbreviations**

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