# CH562Series[C][3]-SDS\_US-English-23.pdf

CH562Series[M][3]-SDS\_US-English-23.pdf

CH562Series[Y][3]-SDS\_US-English-23.pdf



# **SAFETY DATA SHEET**

# 1. Identification

| Product identifier              | CH562Series[C][3]   |
|---------------------------------|---|
| Other means of identification   | Not available.  |
| Recommended use                 | Inkjet printing   |
| <b>Recommended restrictions</b> | None known.   |
| Company identification          | HP<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112<br>United States<br>Telephone 650-857-5020<br>HP health effects line<br>(Toll-free within the US) 1-800-457-4209<br>(Direct) 1-760-710-0048<br>HP Customer Care Line<br>(Toll-free within the US) 1-800-474-6836<br>(Direct) 1-208-323-2551<br>Email: hpcustomer.inquiries@hp.com |

## 2. Hazard(s) identification

| Physical hazards                             | Not classified.  |
|--|--|
| Health hazards                               | Not classified.  |
| Environmental hazards                        | Not classified.  |
| OSHA defined hazards                         | Not classified.  |
| Label elements                               |  |
| Hazard symbol                                | None.  |
| Signal word                                  | None.  |
| Hazard statement                             | Not available.   |
| Precautionary statement                      |  |
| Prevention                                   | Not available.   |
| Response                                     | Not available.   |
| Storage                                      | Not available.   |
| Disposal                                     | Not available.   |
| Hazard(s) not otherwise<br>classified (HNOC) | Potential routes of overexposure to this product are skin and eye contact.<br>Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this<br>product under normal use conditions. |
|  | Complete toxicity data are not available for this specific formulation.  |
| Supplemental information                     | This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).   |

## Supplemental information

## 3. Composition/information on ingredients

| Mixtures |
|----------|
|----------|

| Chemical name  | Common name and synonyms | CAS number  | %     |
|--|--------------------------|-------------|-------|
| Water  |                          | 7732-18-5   | 70-95 |
| Copper phthalocyanine direc salt   | t dye                    | Proprietary | < 5   |
| magnesium nitrate hexahyd  | rate                     | 13446-18-9  | < 2.5 |
| <b>Composition comments</b> This ink supply contains an aqueous ink formulation.<br>This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Haza |                          | 200 (Hazard |       |

Communication Standard).

| 4. 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.  |
| Most important<br>symptoms/effects, acute and<br>delayed | Not available.  |

# 5. Fire-fighting measures

| Suitable extinguishing media<br>Unsuitable extinguishing<br>media   | Dry chemical, CO2, water spray or regular foam.<br>None known. |
|---|--|
| Specific hazards arising from the chemical                          | Not applicable.  |
| Special protective equipment<br>and precautions for<br>firefighters | Not available.   |
| Specific methods  | None established.  |

## 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Wear appropriate personal protective equipment.   |
|---|---|
| Methods and materials for<br>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. |
| Environmental precautions   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system.  |

## 7. Handling and storage

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

## 8. Exposure controls/personal protection

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

# 9. Physical and chemical properties

#### Appearance

| Physical state | Liquid |
|----------------|--------|
| Color          | Cyan   |

| Odor                                       | Not available.  |
|--|---|
| Odor threshold                             | Not available.  |
| pH   | 8 - 8.4   |
| Melting point/freezing point               | Not available.  |
| Initial boiling point and                  | Not determined  |
| boiling range                              |   |
| 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 e              | xplosive limits   |
| Flammability limit - lower<br>(%)          | Not available.  |
| Flammability limit -<br>upper (%)          | Not available.  |
| Explosive limit - lower<br>(%)             | Not available.  |
| Explosive limit - upper<br>(%)             | Not available.  |
| Vapor pressure                             | Not determined  |
| Solubility(ies)                            |   |
| Solubility (water)                         | Soluble in water  |
| Partition coefficient<br>(n-octanol/water) | Not available.  |
| Auto-ignition temperature                  | Not available.  |
| Decomposition temperature                  | Not available.  |
| Viscosity                                  | <= 2 cp   |
| Other information                          | For other VOC regulatory data/information see Section 15. |
| VOC (Weight %)                             | < 156 g/L   |

# 10. Stability and reactivity

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

# **11.** Toxicological information

| Symptoms related to the physical, chemical and toxicological characteristics | Not available.  |
|--|---|
| Information on toxicological e   | ffects  |
| 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<br>irritation   | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitization  | on la                         |
| <b>Respiratory sensitization</b>   | 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<br>- single exposure   | Based on available data, the classification criteria are not met.   |
| Specific target organ toxicity<br>- repeated exposure | Based on available data, the classification criteria are not met.   |
| Aspiration hazard                                     | Based on available data, the classification criteria are not met.   |
| Further information                                   | 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. |

#### **12. Ecological information**

| Aquatic toxicity                 | This product has not been tested for ecological effects. |
|----------------------------------|--|
| Persistence and degradability    | Not available.   |
| <b>Bioaccumulative potential</b> | Not available.   |
| Mobility in soil                 | Not available.   |
| Other adverse effects            | Not available.   |
| •                                |  |

#### **13.** Disposal considerations

 Disposal instructions
 Do not dispose of together with general office waste.

 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.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

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

#### 15. Regulatory information

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

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

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Not regulated.
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

| Hazard categories | Immediate Hazard - No  |
|-------------------|------------------------|
|                   | Delayed Hazard - No    |
|                   | Fire Hazard - No       |
|                   | Pressure Hazard - No   |
|                   | Reactivity Hazard - No |

#### SARA 302 Extremely hazardous substance

Not listed.

| SARA 311/312                              | No  |
|---|---|
| Hazardous chemical                        |   |
| Other federal regulations                 |   |
| Safe Drinking Water Act<br>(SDWA)         | Not regulated.  |
| US state regulations                      |   |
| US. Massachusetts RTK - S                 | Substance List  |
| Not regulated.                            |   |
|   | nd Community Right-to-Know Act  |
| Not listed.                               |   |
| -   | and Community Right-to-Know Law   |
| Not listed.<br>US. Rhode Island RTK       |   |
|   |   |
| Not regulated.                            |   |
| US. California Proposition<br>Not Listed. | 65  |
| Other information                         | $\sqrt{00}$ contant (loss water loss arounds) = < 574 g/L (115 requirement not for  |
| Other mormation                           | VOC content (less water, less exempt compounds) = $< 574$ g/L (U.S. requirement, not for emissions)   |
|   | VOC data based on formulation (Organic compounds minus solids)  |
| Regulatory information                    | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.  |
| 16. Other information, ir                 | ncluding date of preparation or last revision   |
| Issue date                                | 07-Oct-2014   |
| Revision date                             | 30-Aug-2015   |
| Version #                                 | 03  |
| 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<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112 US<br>Direct 1-650-857-5020   |

#### Explanation of abbreviations

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



# SAFETY DATA SHEET

# 1. Identification

| Product identifier              | CH562Series[M][3]   |
|---------------------------------|---|
| Other means of identification   | Not available.  |
| Recommended use                 | Inkjet printing   |
| <b>Recommended restrictions</b> | None known.   |
| Company identification          | HP<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112<br>United States<br>Telephone 650-857-5020<br>HP health effects line<br>(Toll-free within the US) 1-800-457-4209<br>(Direct) 1-760-710-0048<br>HP Customer Care Line<br>(Toll-free within the US) 1-800-474-6836<br>(Direct) 1-208-323-2551<br>Email: hpcustomer.inquiries@hp.com |

# 2. Hazard(s) identification

| Physical hazards                             | Not classified.  |
|--|--|
| Health hazards                               | Not classified.  |
| Environmental hazards                        | Not classified.  |
| OSHA defined hazards                         | Not classified.  |
| Label elements                               |  |
| Hazard symbol                                | None.  |
| Signal word                                  | None.  |
| Hazard statement                             | Not available.   |
| Precautionary statement                      |  |
| Prevention                                   | Not available.   |
| Response                                     | Not available.   |
| Storage                                      | Not available.   |
| Disposal                                     | Not available.   |
| Hazard(s) not otherwise<br>classified (HNOC) | Potential routes of overexposure to this product are skin and eye contact.<br>Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this<br>product under normal use conditions. |
|  | Complete toxicity data are not available for this specific formulation.  |
| Supplemental information                     | This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).   |

## 3. Composition/information on ingredients

| Mixtures                           |                          |             |       |
|------------------------------------|--------------------------|-------------|-------|
| Chemical name                      | Common name and synonyms | CAS number  | %     |
| Water                              |                          | 7732-18-5   | 65-85 |
| 2-pyrrolidone                      |                          | 616-45-5    | < 7.5 |
| Polycyclic sulfonic acid, TMA salt |                          | Proprietary | < 7.5 |
| magnesium nitrate hexahydrate      |                          | 13446-18-9  | < 2.5 |

| Composition comments  | This ink supply contains an aqueous ink formulation.<br>This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard<br>Communication Standard). |
|-----------------------|--|
| 4. 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.  |
| Most important<br>symptoms/effects, acute and<br>delayed | Not available.  |

## 5. Fire-fighting measures

| Suitable extinguishing media  | Dry chemical, CO2, water spray or regular foam. |
|---|---|
| Unsuitable extinguishing media                                      | None known.                                     |
| Specific hazards arising from the chemical                          | Not applicable.                                 |
| Special protective equipment<br>and precautions for<br>firefighters | Not available.                                  |
| Specific methods  | None established.                               |
| 6 Accidental release me   | 2611596   |

### 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Wear appropriate personal protective equipment.   |
|---|---|
| Methods and materials for<br>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. |
| Environmental precautions   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system.  |
|   |   |

## 7. Handling and storage

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

# 8. Exposure controls/personal protection

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

# 9. Physical and chemical properties

### Appearance

| Physical state                             | Liquid.   |
|--|---|
| Color                                      | Magenta   |
| Odor                                       | Not available.  |
| Odor threshold                             | Not available.  |
| рН   | 8 - 8.4   |
| Melting point/freezing point               | Not available.  |
| Initial boiling point and<br>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 e              | xplosive limits   |
| Flammability limit - lower<br>(%)          | Not available.  |
| Flammability limit -<br>upper (%)          | Not available.  |
| Explosive limit - lower<br>(%)             | Not available.  |
| Explosive limit - upper<br>(%)             | Not available.  |
| Vapor pressure                             | Not determined  |
| Solubility(ies)                            |   |
| Solubility (water)                         | Soluble in water  |
| Partition coefficient<br>(n-octanol/water) | Not available.  |
| Auto-ignition temperature                  | Not available.  |
| Decomposition temperature                  | Not available.  |
| Viscosity                                  | <= 2 cp   |
| Other information                          | For other VOC regulatory data/information see Section 15. |
| VOC (Weight %)                             | < 156 g/L   |

# **10. Stability and reactivity**

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

# **11.** Toxicological information

| Symptoms related to the physical, chemical and toxicological characteristics | Not available.  |  |
|--|---|--|
| 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<br>irritation   | Based on available data, the classification criteria are not met. |  |

#### 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. |

| 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       Based on available data, the classification criteria are not met.         - indice exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         Aspiration hazard       Based on available data, the classification criteria are not met.         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.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Kate       6500 mg/kg         Acute       Oral       Eotooicity         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Acute       Species         Components       Species       Test Results         2-pyrolidone (CAS 616-45-5)       Aquatic       Crustacea       EC50         Corustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours  |                               |  |   |  |
|--|-------------------------------|--|---|--|
| Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - ingle exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Complete toxicity data are not available for this specific formulation Refer to Section 4 for first aid measures.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Actie       Good         Acute       Consolution       Rat       6500 mg/kg         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Consolution         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Consolution         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Not available.         Bioaccumulative potential       Not available.       Not available.       Not available.         Portition coefficient - octarol / water (log Kow)       2.21 mg/l, 48 hours       Portition coefficient - octarol / water (log Kow)         2-pyrrolidone       Not available.       Do not alispose of  | Germ cell mutagenicity        |  |   |  |
| Specific target organ toxicity<br>single exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity<br>repeated exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity<br>repeated exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity<br>repeated exposure       Based on available data, the classification criteria are not met.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)<br>Acute<br>Card<br>LD50       Guinea pig<br>Rat       6500 mg/kg         Acute<br>Card<br>LD50       Guinea pig<br>Rat       6500 mg/kg         2-pyrrolidone (CAS 616-45-5)<br>Aquatic<br>Crustacea       Species       Test Results         2-pyrrolidone (CAS 616-45-5)<br>Aquatic<br>Crustacea       Not available.       Do not allow the fies (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability<br>Boaccumulative potential       Not available.       Do not allow this material to drain into severs/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.       HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycl<br>HP original inkiget and Laser)et supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information<br>Dor       Not regulated as dangerous goods.         MIMO  |                               | Based on available data, the classification criteria are not met.  |   |  |
| <ul> <li>- single exposure</li> <li>- single exposure</li> <li>- Specific target organ toxicity</li> <li>- Based on available data, the classification criteria are not met.</li> <li>- repeated exposure</li> <li>Aspiration hazard</li> <li>Based on available data, the classification criteria are not met.</li> <li>- Complete toxicity data are not available for this specific formulation</li> <li>- Refer to Section 2 for potential health effects and Section 4 for first aid measures.</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Complete toxicity</li> <li>- Rat</li> <li>- Good mg/kg</li> <li>- Costo</li> <li>- Costo</li></ul>   | •                             |  | •   |  |
| <ul> <li>i-peated exposine</li> <li>Aspiration hazard</li> <li>Based on available data, the classification criteria are not met:</li> <li>Components</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li> <li>Guinea pig</li> <li>G500 mg/kg</li> <li>Based on available for this specific formulation</li> <li>Ret 6500 mg/kg</li> <li>Ecological information</li> <li>Aquatic</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li></ul>   |                               | Based on av  | ailable data, the classification criteria | are not met.   |
| Further information         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.           Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5)         Acute<br>Oral<br>LD50         Guinea pig         6500 mg/kg           Acute<br>Oral<br>LD50         Guinea pig         6500 mg/kg           Aquatic toxicity         This product has not been tested for ecological effects.           Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5)         Aquatic<br>Crustacea         EC50         Water flea (Daphnia pulex)         13.21 mg/l, 48 hours           Persistence and degradability         Not available.         Purrolidone         On a valiable.           Partition coefficient n-octanol / water flog Kow)<br>2-pyrrolidone         On ot available.         On ot dispose of together with general office waste.           Disposal instructions         Do not dispose of together with general office waste.         Do not dispose of together with general office waste.           Disposal instructions         Do not dispose of together with general office waste.         Or more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.           14. Transport information<br>wore regulated as dangerous goods.         More<br>Not regulated as dangerous goods.         Not a dangerous goods.  |                               | Based on av  | ailable data, the classification criteria | are not met.   |
| Refer to Section 2 for potential health effects and Section 4 for first aid measures. Components Species Components Species Components Species Test Results Components Species Test Results Components Component Componen | Aspiration hazard             | Based on av  | ailable data, the classification criteria | are not met.   |
| 2-pyrrolidone (CAS 616-45-5)<br>Acute<br>Orad<br>LDS0 Guinea pig 6500 mg/kg<br>12. Ecological information<br>Aquatic toxicity This product has not been tested for ecological effects.<br>Ecotoxicity<br>Components Species Test Results<br>2-pyrrolidone (CAS 616-45-5)<br>Aquatic<br>Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours<br>Persistence and degradability Not available.<br>Bioaccumulative potential Not available.<br>Bioaccumulative potential Not available.<br>Bioaccumulative potential Not available.<br>Bioaccumulative potential Not available.<br>Disposal considerations<br>Disposal instructions Do not dispose of together with general office waste.<br>Do not dispose of together with general office waste.<br>Do not dispose of together with general office waste.<br>Do not dispose of together with general office waste.<br>Disposal instructions Do not dispose of together with general office waste.<br>Do not dispose of together with general office waste.<br>Do not dispose of together with general office waste.<br>Disposal instructions Do not dispose of together with general office waste.<br>HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and Laser-let supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.<br>14. Transport information<br>Dot<br>Not regulated as dangerous goods.<br>IMDG<br>Not regulated as dangerous goods.<br>IMDG<br>Not regulated as dangerous goods.<br>Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information  | Further information           |  |   |  |
| Acute       Oral         LDS0       Guinea pig       6500 mg/kg         12. Ecological information       Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Other adverse       0.85         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         Mobility in soil       Not available.       Other adverse         Other adverse effects       Not available.       Other adverse         Disposal instructions       Do not dispose of together with general office waste.       Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyct HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dor       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.       ADR         Not regulated as dangerous goods. <th>Components</th> <th>Species</th> <th></th> <th>Test Results</th>  | Components                    | Species  |   | Test Results   |
| Ora/<br>LDS0       Guinea pig<br>Rat       6500 mg/kg         At       6500 mg/kg         12. Ecological information       Fast and the second secon  | 2-pyrrolidone (CAS 616-45-5)  |  |   |  |
| LD50 Guinea pig 6500 mg/kg<br>Rat 6500 mg/kg<br>12. Ecological information<br>Aquatic toxicity This product has not been tested for ecological effects.<br>Ecotoxicity Species Test Results<br>2-pyrrolidone (CAS 616-45-5)<br>Aquatic Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours<br>Persistence and degradability Not available.<br>Bioaccumulative potential Not available.<br>Bioaccumulative potential Not available.<br>Deprrolidone -0.85<br>Mobility in soil Not available.<br>13. Disposal considerations<br>Disposal instructions Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.<br>HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycl<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.<br>14. Transport information<br>DOT<br>Not regulated as dangerous goods.<br>IMD6<br>Not regulated as dangerous goods.<br>IMD6<br>Not regulated as dangerous goods.<br>IMD6<br>Not regulated as dangerous goods.<br>IMD6<br>Not regulated as dangerous goods.<br>IMD7<br>Not regulated as dangerous goods.<br>IMD6<br>Not regulated as dangerous goods.<br>IMD6<br>Not adangerous good under DOT, IATA, ADR, IMDG, or RID.   | Acute                         |  |   |  |
| Rat       6500 mg/kg         12. Ecological information       Aquatic toxicity         Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components         Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic         Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         Abbility in soil       Not available.       -0.85         Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor to Local, State, Federal, and Provincial Environmental Regulations.       HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycle HP's planet Partners (trademark) supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG,  | Oral                          |  |   |  |
| 12. Ecological information         Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       ECS0       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         2-pyrolidone       -0.85       Mobility in soil       Not available.         Other adverse effects       Not available.       -0.85         Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling Program enables simple, convenient recycling vialable in your location, please visit http://www.hp.com/recycle.         14. Transport information       Or regulated as dangerous goods.         DOG       Not regulated as dangerous goods.         MDG       Not regulated as dangerous goods.         MDF       Not adangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       <  | LD50                          | Guinea pig   | ]   | 6500 mg/kg   |
| Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic<br>Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Not available.         Bioaccumulative potential       Not available.       -0.85         Partition coefficient n-octanol / water (log Kow)<br>2-pyrolidone       -0.85         Other adverse effects       Not available.         Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into severs/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.         IATA<br>Not regulated as dangerous goods.       IMDG<br>Not regulated as dangerous goods.         IMDG<br>Not regulated as dangerous goods.       Kater and Repruse good under DOT, IATA, ADR, IMDG, or RID.         IS. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  |                               | Rat  |   | 6500 mg/kg   |
| Ecotoxicity       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic         Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Bioaccumulative potential       Not available.       -0.85       Mobility in soil       Not available.         Partition coefficient n-octanol / water (log Kow)       -0.85       -0.85       Mobility in soil       Not available.         Other adverse effects       Not available.       -0.85       -0.85       Do not dispose of together with general office waste.       Do not allout this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dot         DoT       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not  | 12. Ecological information    | on   |   |  |
| Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5)<br>Aquatic<br>Crustacea         EC50         Water flea (Daphnia pulex)         13.21 mg/l, 48 hours           Persistence and degradability<br>Bioaccumulative potential         Not available.         13.21 mg/l, 48 hours           Partition coefficient n-otarrol / water (log Kow)<br>2-pyrrolidone         -0.85         14.000000000000000000000000000000000000  | Aquatic toxicity              | This product   | has not been tested for ecological e      | ffects.  |
| 2-pyrrolidone (CAS 616-45-5)<br>Aquatic<br>Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours<br>Persistence and degradability Not available.<br>Bioaccumulative potential Not available.<br>Partition coefficient n-octanol / water (log Kow)<br>2-pyrrolidone -0.85<br>Mobility in soil Not available.<br>Other adverse effects Not available.<br>13. Disposal considerations<br>Disposal instructions Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.<br>HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.<br>14. Transport information<br>DOT<br>Not regulated as dangerous goods.<br>IMDG<br>Not regulated as dangerous goods.<br>ADR<br>Not regulated as dangerous goods.<br>Further information<br>Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information  | Ecotoxicity                   |  |   |  |
| Aquatic<br>Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability<br>Bioaccumulative potential       Not available.       Not available.         Partition coefficient n-octanol / water (log Kow)<br>2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and Laser) supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dor         DoT<br>Not regulated as dangerous goods.       IMOE<br>Not regulated as dangerous goods.         ADR<br>Not regulated as dangerous goods.       ADR<br>Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  | Components                    |  | Species                                   | Test Results   |
| Custacea       ECS0       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Not available.         Bioaccumulative potential       Not available.       -0.85         Partition coefficient n-octanol / water (log Kow)<br>2-pyrrolidone       -0.85         A-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         J3.Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycl<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information<br>DOT<br>Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG<br>Not regulated as dangerous goods.       ADR<br>Not regulated as dangerous goods.         ADR<br>Not regulated as dangerous goods.       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.   | 2-pyrrolidone (CAS 616-45-5)  | 1  |   |  |
| Persistence and degradability       Not available.         Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       -0.85         A-pyrrolidone       -0.85         Mobility in soil       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.         Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycle HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dot         DOT       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         ADR       Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  | Aquatic                       |  |   |  |
| Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)<br>2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this servic<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information<br>DOT<br>Not regulated as dangerous goods.         IMDG<br>Not regulated as dangerous goods.         ADR<br>Not regulated as dangerous goods.         Further information         Not regulated as dangerous goods.         Further information         Not regulated as dangerous goods.         ADR<br>Not regulated as dangerous goods.         Further information         Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information  | Crustacea                     | EC50   | Water flea (Daphnia pulex)                | 13.21 mg/l, 48 hours   |
| Partition coefficient n-octanol / water (log Kow)       -0.85         2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information<br>DOT<br>Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG<br>Not regulated as dangerous goods.       Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  | Persistence and degradability | Not available  | 2.  |  |
| 2-pyrrolidone -0.85<br>Mobility in soil Not available.<br>Other adverse effects Not available.<br>13. Disposal considerations Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.<br>HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycl<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.<br>14. Transport information<br>DOT<br>Not regulated as dangerous goods.<br>IMDG<br>Not regulated as dangerous goods.<br>ADR<br>Not regulated as dangerous goods.<br>Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information  |                               |  | 2.  |  |
| Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor<br>to Local, State, Federal, and Provincial Environmental Regulations.         Disposal instructions       Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information<br>DOT<br>Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG<br>Not regulated as dangerous goods.       Not regulated as dangerous goods.         ADR<br>Not regulated as dangerous goods.       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.   |                               | anol / water   |   |  |
| 13. Disposal considerations         Disposal instructions       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.         14. Transport information         DOT         Not regulated as dangerous goods.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good.  |                               | Not available  | 2.  |  |
| Disposal instructions       Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material accore to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycles         HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information         DOT         Not regulated as dangerous goods.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information   | Other adverse effects         | Not available  | 2.  |  |
| Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco<br>to Local, State, Federal, and Provincial Environmental Regulations.<br>HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc<br>HP original inkjet and LaserJet supplies. For more information and to determine if this service<br>available in your location, please visit http://www.hp.com/recycle.<br><b>14. Transport information</b><br><b>DOT</b><br>Not regulated as dangerous goods.<br><b>IATA</b><br>Not regulated as dangerous goods.<br><b>IMDG</b><br>Not regulated as dangerous goods.<br><b>ADR</b><br>Not regulated as dangerous goods.<br><b>Further information</b><br>Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><b>15. Regulatory information</b>   | 13. Disposal consideration    | ons  |   |  |
| HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.  14. Transport information DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. IMDG Not regulated as dangerous goods. ADR Not regulated as dangerous goods. Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  15. Regulatory information  | •                             | <b>s</b> Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco |   | ater supplies. Dispose of waste material according<br>ental Regulations. |
| DOT   Not regulated as dangerous goods.   IATA   Not regulated as dangerous goods.   IMDG   Not regulated as dangerous goods.   ADR Not regulated as dangerous goods.  Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  15. Regulatory information  |                               | HP original i  | nkjet and LaserJet supplies. For mo       | re information and to determine if this service is                       |
| 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.  I.5. Regulatory information  | 14. Transport information     | n  |   |  |
| IATA<br>Not regulated as dangerous goods.<br>IMDG<br>Not regulated as dangerous goods.<br>ADR<br>Not regulated as dangerous goods.<br>Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information   | DOT                           |  |   |  |
| 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.  I5. Regulatory information   | Not regulated as dangerous g  | oods.  |   |  |
| IMDG<br>Not regulated as dangerous goods.<br>ADR<br>Not regulated as dangerous goods.<br>Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information  | ΙΑΤΑ                          |  |   |  |
| Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information  | Not regulated as dangerous g  | oods.  |   |  |
| ADR<br>Not regulated as dangerous goods.<br>Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br>15. Regulatory information   |                               |  |   |  |
| Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information  | Not regulated as dangerous g  | joods.   |   |  |
| Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information  | ADR                           |  |   |  |
|  |                               |  | rous good under DOT, IATA, ADR, IN        | 1DG, or RID.   |
|  | 15 Regulatory informat        | ion  |   |  |
|  |                               |  | (b): Does not contain listed chemical     | S.   |
|  | /eaclar regulations           | 00 100A IZ   |   |  |

| TSCA Section 12(b) Expor                                       | t Notification (40 CFR 707, Subpt. D)   |
|--|---|
| Not regulated.   |   |
| CERCLA Hazardous Subst   | ance List (40 CFR 302.4)  |
| Not listed.  |   |
| SARA 304 Emergency rele  | ase notification  |
|  | ted Substances (29 CFR 1910.1001-1050)  |
| Not listed.  |   |
| -  | Reauthorization Act of 1986 (SARA)<br>Immediate Hazard - No   |
| Hazard categories  | Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No   |
| SARA 302 Extremely haza<br>Not listed.                         | Irdous substance  |
| SARA 311/312<br>Hazardous chemical                             | Νο  |
| Other federal regulations<br>Safe Drinking Water Act<br>(SDWA) | Not regulated.  |
| US state regulations   |   |
| US. Massachusetts RTK - S                                      |   |
| -  | 45-5)<br>nd Community Right-to-Know Act   |
|  | and Community Right-to-Know Law   |
| 2-pyrrolidone (CAS 616-4<br>US. Rhode Island RTK               | <del>1</del> 5-5)   |
| Not regulated.   |   |
| US. California Proposition<br>Not Listed.                      | 65  |
| Other information  | VOC content (less water, less exempt compounds) = < 533 g/L (U.S. requirement, not for emissions)<br>VOC data based on formulation (Organic compounds minus solids)   |
| Regulatory information   | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.  |
| 16. Other information, in                                      | ncluding date of preparation or last revision   |
| Issue date   | 07-Oct-2014   |
| Revision date  | 30-Aug-2015   |
| Version #  | 03  |
| 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<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112 US<br>Direct 1-650-857-5020   |

#### Explanation of abbreviations

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



# SAFETY DATA SHEET

# 1. Identification

| Product identifier              | CH562Series[Y][3]   |
|---------------------------------|---|
| Other means of identification   | Not available.  |
| Recommended use                 | Inkjet printing   |
| <b>Recommended restrictions</b> | None known.   |
| Company identification          | HP<br>1501 Page Mill Road<br>Palo Alto, CA 94304-1112<br>United States<br>Telephone 650-857-5020<br>HP health effects line<br>(Toll-free within the US) 1-800-457-4209<br>(Direct) 1-760-710-0048<br>HP Customer Care Line<br>(Toll-free within the US) 1-800-474-6836<br>(Direct) 1-208-323-2551<br>Email: hpcustomer.inquiries@hp.com |

## 2. Hazard(s) identification

| Physical hazards                             | Not classified.  |
|--|--|
| Health hazards                               | Not classified.  |
| Environmental hazards                        | Not classified.  |
| OSHA defined hazards                         | Not classified.  |
| Label elements                               |  |
| Hazard symbol                                | None.  |
| Signal word                                  | None.  |
| Hazard statement                             | Not available.   |
| Precautionary statement                      |  |
| Prevention                                   | Not available.   |
| Response                                     | Not available.   |
| Storage                                      | Not available.   |
| Disposal                                     | Not available.   |
| Hazard(s) not otherwise<br>classified (HNOC) | Potential routes of overexposure to this product are skin and eye contact.<br>Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this<br>product under normal use conditions. |
|  | Complete toxicity data are not available for this specific formulation.  |
| Supplemental information                     | This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).   |

## 3. Composition/information on ingredients

| Mixtures                      |                          |             |       |
|-------------------------------|--------------------------|-------------|-------|
| Chemical name                 | Common name and synonyms | CAS number  | %     |
| Water                         |                          | 7732-18-5   | 65-85 |
| 2-pyrrolidone                 |                          | 616-45-5    | < 7.5 |
| Yellow colorant               |                          | Proprietary | < 7.5 |
| magnesium nitrate hexahydrate |                          | 13446-18-9  | < 2.5 |

| Composition comments  | This ink supply contains an aqueous ink formulation.<br>This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard<br>Communication Standard). |
|-----------------------|--|
| 4. 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.  |
| Most important<br>symptoms/effects, acute and<br>delayed | Not available.  |

## 5. Fire-fighting measures

| Suitable extinguishing media  | Dry chemical, CO2, water spray or regular foam. |
|---|---|
| Unsuitable extinguishing media                                      | None known.                                     |
| Specific hazards arising from the chemical                          | Not applicable.                                 |
| Special protective equipment<br>and precautions for<br>firefighters | Not available.                                  |
| Specific methods  | None established.                               |
| 6. Accidental release measures                                      |   |

### 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Wear appropriate personal protective equipment.   |
|---|---|
| Methods and materials for<br>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. |
| Environmental precautions   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system.  |
|   |   |

## 7. Handling and storage

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

## 8. Exposure controls/personal protection

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

# 9. Physical and chemical properties

#### Appearance

| Physical state                             | Liquid.   |
|--|---|
| Color                                      | Yellow  |
| Odor                                       | Not available.  |
| Odor threshold                             | Not available.  |
| рН   | 8 - 8.4   |
| Melting point/freezing point               | Not available.  |
| Initial boiling point and<br>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 e              | -   |
| Flammability limit - lower<br>(%)          | Not available.  |
| Flammability limit -<br>upper (%)          | Not available.  |
| Explosive limit - lower<br>(%)             | Not available.  |
| Explosive limit - upper<br>(%)             | Not available.  |
| Vapor pressure                             | Not determined  |
| Solubility(ies)                            |   |
| Solubility (water)                         | Soluble in water  |
| Partition coefficient<br>(n-octanol/water) | Not available.  |
| Auto-ignition temperature                  | Not available.  |
| Decomposition temperature                  | Not available.  |
| Viscosity                                  | <= 2 cp   |
| Other information                          | For other VOC regulatory data/information see Section 15. |
| VOC (Weight %)                             | < 155 g/L   |

# 10. Stability and reactivity

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

## **11.** Toxicological information

Symptoms related to the<br/>physical, chemical and<br/>toxicological characteristicsNot available.Information on toxicological effectsAcute toxicityBased on available data, the classification criteria are not met.Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eye<br/>irritationBased on available data, the classification criteria are not met.

#### 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. |

| Corm coll mutagonicity                                  | Pacad on av   | silable data, the classification criteria   | are not mot          |
|---|---|---|----------------------|
| Germ cell mutagenicity<br>Carcinogenicity               |   | ailable data, the classification criteria<br>ailable data, the classification criteria                                  |                      |
| Reproductive toxicity                                   |   | ailable data, the classification criteria   |                      |
| Specific target organ toxicity                          |   | ailable data, the classification criteria   |                      |
| - single exposure                                       | Daseu on ava  | diable uata, the classification criteria  | are not met.         |
| Specific target organ toxicity<br>- repeated exposure   | Based on ava  | ailable data, the classification criteria   | are not met.         |
| Aspiration hazard                                       | Based on ava  | ailable data, the classification criteria   | are not met.         |
| Further information                                     |   | kicity data are not available for this s<br>ion 2 for potential health effects and                                      |                      |
| Components  | Species   |   | Test Results         |
| 2-pyrrolidone (CAS 616-45-5)                            |   |   |                      |
| Acute   |   |   |                      |
| Oral  |   |   |                      |
| LD50  | Guinea pig  |   | 6500 mg/kg           |
|   | Rat   |   | 6500 mg/kg           |
| 12. Ecological information                              | on  |   |                      |
| Aquatic toxicity  | This product  | has not been tested for ecological ef   | ffects.              |
| Ecotoxicity   |   |   |                      |
| Components  |   | Species   | Test Results         |
| 2-pyrrolidone (CAS 616-45-5)                            |   |   |                      |
| Aquatic   |   |   |                      |
| Crustacea   | EC50  | Water flea (Daphnia pulex)  | 13.21 mg/l, 48 hours |
| Persistence and degradability                           | Not available   |   |                      |
| Bioaccumulative potential                               | Not available   |   |                      |
| Partition coefficient n-octa<br>2-pyrrolidone           | anol / water (  | (log Kow)<br>-0.85  |                      |
| Mobility in soil  | Not available   |   |                      |
| Other adverse effects                                   | Not available   | <b>.</b>  |                      |
| 13. Disposal consideration                              | ons   |   |                      |
| Disposal instructions                                   | Do not dispo<br>Do not allow  | se of together with general office wa<br>this material to drain into sewers/wa<br>aste material according to Local, Sta |                      |
|   | HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling 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. |   |                      |
| 14. Transport information                               | n   |   |                      |
| DOT   |   |   |                      |
| Not regulated as dangerous g                            | oods.   |   |                      |
| Not regulated as dangerous g                            | oods.   |   |                      |
| IMDG<br>Not regulated as dangerous g                    |   |   |                      |
|   |   |   |                      |
| ADR   |   |   |                      |
| Not regulated as dangerous goods<br>Further information |   | ous good under DOT, IATA, ADR, IM   |                      |

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

|  | rt Notification (40 CFR 707, Subpt. D)  |  |  |
|--|---|--|--|
| Not regulated.   |   |  |  |
| CERCLA Hazardous Subst                                     | ance List (40 CFR 302.4)  |  |  |
| Not listed.  | and notification  |  |  |
| SARA 304 Emergency rele                                    |   |  |  |
| Not regulated.<br>OSHA Specifically Regulat<br>Not listed. | ted Substances (29 CFR 1910.1001-1050)  |  |  |
| Superfund Amendments and I                                 | Reauthorization Act of 1986 (SARA)  |  |  |
| Hazard categories  | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No  |  |  |
| SARA 302 Extremely haza                                    | ardous substance  |  |  |
| Not listed.  |   |  |  |
| SARA 311/312<br>Hazardous chemical                         | Νο  |  |  |
| Other federal regulations                                  |   |  |  |
| Safe Drinking Water Act<br>(SDWA)                          | Not regulated.  |  |  |
| US state regulations                                       |   |  |  |
| US. Massachusetts RTK -                                    | Substance List  |  |  |
| 2-pyrrolidone (CAS 616-                                    | 45-5)   |  |  |
| US. New Jersey Worker a                                    | nd Community Right-to-Know Act  |  |  |
| Not listed.  |   |  |  |
| =  | and Community Right-to-Know Law   |  |  |
| 2-pyrrolidone (CAS 616-4<br>US. Rhode Island RTK           | <del>1</del> 5-5)   |  |  |
| Not regulated.   |   |  |  |
| US. California Proposition                                 | 65  |  |  |
| Not Listed.  |   |  |  |
| Other information  | VOC content (less water, less exempt compounds) = $< 527$ g/L (U.S. requirement, not for emissions)   |  |  |
| Deculatory information                                     | VOC data based on formulation (Organic compounds minus solids)  |  |  |
| Regulatory information                                     | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.  |  |  |
| 16. Other information, in                                  | ncluding date of preparation or last revision   |  |  |
| Issue date   | 07-Oct-2014   |  |  |
| Revision date  | 30-Aug-2015   |  |  |
| Version #  | 03  |  |  |
| 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 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

#### Explanation of abbreviations

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