



# SAFETY DATA SHEET

## 1. Identification

|  |   |
|--|---|
| <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>GHS product identifier</b>  | 4UV54Series   |
| <b>Other means of identification</b>   | None.   |
| <b>Recommended use</b>   | Inkjet printing   |
| <b>Recommended restrictions</b>  | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b>                    | HQ, ZA<br>HP Inc.<br>12 Autumn Street, Pt. 1st Floor<br>2128<br>Sandton<br>South Africa<br>P.C. 2128  |
| <b>Telephone</b>   | +27 11 069 5400 or 5529   |
| <b>HP Inc. health effects line<br/>(Toll-free within the US)<br/>(Direct)</b>    | 1-800-457-4209<br>1-760-710-0048  |
| <b>HP Inc. Customer Care<br/>Line<br/>(Toll-free within the US)<br/>(Direct)</b> | 1-800-474-6836<br>1-208-323-2551  |
| <b>Email:</b>  | hpcustomer.inquiries@hp.com   |

## 2. Hazard(s) identification

|  |  |
|--|--|
| <b>Physical hazards</b>                                    | Not classified.  |
| <b>Health hazards</b>                                      | Not classified.  |
| <b>Environmental hazards</b>                               | Not classified.  |
| <b>Label elements</b>                                      |  |
| <b>Hazard symbol</b>                                       | None.  |
| <b>Signal word</b>   | None.  |
| <b>Hazard statement</b>                                    | Not available.   |
| <b>Precautionary statement</b>                             |  |
| <b>Prevention</b>  | Not available.   |
| <b>Response</b>  | Not available.   |
| <b>Storage</b>   | Not available.   |
| <b>Disposal</b>  | Not available.   |
| <b>Other hazards which do not result in classification</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.<br><br>Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. |
| <b>Supplemental information</b>                            | 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.  |

### 3. Composition/information on ingredients

#### Mixtures

| <b>Hazardous components</b>     |                                 |                   |          |
|---------------------------------|---------------------------------|-------------------|----------|
| <b>Chemical name</b>            | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
| 1,2-butanediol                  |                                 | 584-03-2          | <20      |
| 2-pyrrolidone                   |                                 | 616-45-5          | <3       |
| <b>Non-hazardous components</b> |                                 |                   |          |
| <b>Chemical name</b>            | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
| Water                           |                                 | 7732-18-5         | 60-80    |
| Black Pigment                   |                                 | Proprietary       | <5       |

|                             |   |
|-----------------------------|---|
| <b>Composition comments</b> | This ink supply contains an aqueous ink formulation.<br><br>Carbon black is present only in a bound form in this preparation.<br><br>2-pyrrolidone: Specific Concentration Limit 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11. |
|-----------------------------|---|

### 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. Get medical attention if irritation develops or persists.  |
| <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>Most important symptoms/effects, acute and delayed</b>                     | Not available.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Not available.  |

### 5. Fire-fighting measures

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

### 6. Accidental release measures

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

### 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

#### Occupational exposure limits

South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2

| <b>Components</b> | <b>Type</b> | <b>Value</b> |
|-------------------|-------------|--------------|
| Black Pigment     | STEL        | 7 mg/m3      |

**South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2**

| Components   | Type  | Value                 |
|--|---|-----------------------|
|  | TWA   | 3.5 mg/m <sup>3</sup> |
| <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>Appropriate engineering controls</b>                                      | Use in a well ventilated area.  |                       |
| <b>Individual protection measures, such as personal protective equipment</b> |   |                       |
| <b>Eye/face protection</b>   | Not available.  |                       |
| <b>Skin protection</b>   |   |                       |
| <b>Hand protection</b>   | Not available.  |                       |
| <b>Other</b>   | Not available.  |                       |
| <b>Respiratory protection</b>  | Not available.  |                       |
| <b>Thermal hazards</b>   | Not available.  |                       |
| <b>General hygiene considerations</b>  | Handle in accordance with good industrial hygiene and safety practice.  |                       |
|  | Under extreme work place conditions, ink vapors may condense outside of the printing system. The Waste Profile Datasheet for your printer at <a href="https://hpllatexknowledgecenter.com/applications/wasteprofiles">https://hpllatexknowledgecenter.com/applications/wasteprofiles</a> contains more information on how to properly handle and dispose of the condensate. |                       |

**9. Physical and chemical properties**

|   |   |
|---|---|
| <b>Appearance</b>                                   | liquid  |
| <b>Physical state</b>                               | Liquid.   |
| <b>Form</b>   | Liquid.   |
| <b>Color</b>  | Black.  |
| <b>Odor</b>   | Not available.  |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | 8.4   |
| <b>Melting point/freezing point</b>                 | Not available.  |
| <b>Initial boiling point and boiling range</b>      | Not available.  |
| <b>Flash point</b>                                  | 343.0 °F (172.8 °C) Pensky-Martens Closed Cup estimated |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not available.  |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | Not available.  |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | Not available.  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Other information</b>                            |   |
| <b>Oxidizing properties</b>                         | Not determined  |
| <b>VOC</b>  | < 266 g/l EPA method 24                                 |

## 10. Stability and reactivity

|   |   |
|---|---|
| <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.  |

**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.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

2-pyrrolidone (CAS 616-45-5)

**Acute**

**Oral**

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

Black Pigment

**Acute**

**Oral**

|      |     |               |
|------|-----|---------------|
| LD50 | Rat | > 10000 mg/kg |
|------|-----|---------------|

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

**Serious eye damage/eye irritation** 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** Non-sensitizer- Local Lymph Node Assay (OECD 429).

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

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

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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

2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).

**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.

**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

### Ecotoxicity

| 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>Partition coefficient n-octanol / water (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>Disposal instructions</b>                 | Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies.<br>Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.<br>Ensure collection and disposal with an appropriately licensed waste contractor. |
| <b>Waste from residues / unused products</b> | Not available.  |
| <b>Contaminated packaging</b>                | Not available.  |

## 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.                                 |
|                                     | 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

#### Hazardous Substances Act, 1973 (Act No. 15 of 1973)

Not listed.

#### International regulations

The components of this product are reported in the following inventories: United States of America, European Union, Switzerland, Canada, Australia and New Zealand.

#### 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

**Issue date** 23-Apr-2021

**Revision date** 24-Apr-2021

**Version #** 02

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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  |