



# 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>Product identifier</b>                                      | 51605B Rev B  |  |
| <b>Other means of identification</b>                           | None.   |  |
| <b>Recommended use of the chemical and restrictions on use</b> |   |  |
| <b>Recommended use</b>   | Inkjet printing   |  |
| <b>Restrictions on use</b>                                     | Not available.  |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b>  |   |  |
| <b>Company identification</b>                                  | HP Inc. Hong Kong Limited<br>25th Floor, Cityplaza One, 1111 King's Road<br>Taikoo Shing, Hong Kong   |  |
| <b>Telephone</b>   | 852-3070 6688   |  |
| <b>HP Inc health effect line</b>                               |   |  |
| (Toll-free within US)  | 1-800-457-4209  |  |
| (Direct)   | 1-760-710-0048  |  |
| <b>HP Inc. Customer Care Line</b>                              |   |  |
| (Toll-free within the US)                                      | 1-800-474-6836  |  |
| (Direct)   | 1-208-323-2551  |  |
| <b>Email:</b>  | hpcustomer.inquiries@hp.com   |  |
| <b>Telephone</b>   | +85230772688  |  |

## 2. Hazards identification

|                              |   |                     |
|------------------------------|---|---------------------|
| <b>Physical hazards</b>      | Not classified.                                     |                     |
| <b>Health hazards</b>        | Reproductive toxicity (fertility, the unborn child) | Category 1B         |
|                              | Specific target organ toxicity, repeated exposure   | Category 2 (kidney) |
| <b>Environmental hazards</b> | Not classified.                                     |                     |
| <b>Label elements</b>        |   |                     |



|                                |   |  |
|--------------------------------|---|--|
| <b>Signal word</b>             | Danger  |  |
| <b>Hazard statement</b>        |   |  |
| H360                           | May damage fertility or the unborn child.                                   |  |
| H373                           | May cause damage to organs (kidney) through prolonged or repeated exposure. |  |
| <b>Precautionary statement</b> |   |  |
| <b>Prevention</b>              |   |  |
| P280                           | Wear protective gloves/protective clothing/eye protection.                  |  |
| P202                           | Do not handle until all safety precautions have been read and understood.   |  |
| P201                           | Obtain special instructions before use.                                     |  |
| P260                           | Do not breathe mist or vapor.   |  |
| <b>Response</b>                |   |  |
| P314                           | Get medical attention/advice if you feel unwell.                            |  |
| P308 + P313                    | IF exposed or concerned: Get medical advice/attention.                      |  |
| <b>Storage</b>                 |   |  |
| P405                           | Store locked up.  |  |
| <b>Disposal</b>                |   |  |

**Other hazards which do not result in classification**

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.

**Supplemental information**

Complete toxicity data are not available for this specific formulation.

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****Hazardous components**

| Chemical name   | Common name and synonyms | CAS number  | %    |
|-----------------|--------------------------|-------------|------|
| Ethylene glycol |                          | 107-21-1    | <30  |
| 2-pyrrolidone   |                          | 616-45-5    | <20  |
| Alkyldiol       |                          | Proprietary | <7.5 |

**Non-hazardous components**

| Chemical name                        | Common name and synonyms | CAS number  | %     |
|--------------------------------------|--------------------------|-------------|-------|
| Water                                |                          | 7732-18-5   | 40-50 |
| Substituted triphenylmethane salt #1 |                          | Proprietary | <2.5  |
| Substituted xanthylium salt #1       |                          | Proprietary | <2.5  |

**Composition comments**

This ink supply contains an aqueous ink formulation. 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****Inhalation**

Move to fresh air. If symptoms persist, get medical attention.

**Skin contact**

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

**Eye contact**

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

**Ingestion**

If ingestion of a large amount does occur, seek medical attention.

**Most important symptoms/effects, acute and delayed**

Not available.

**5. Fire-fighting measures****Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

Not applicable.

**Special protective equipment and precautions for firefighters**

Not available.

**Specific methods**

None established.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment.

**Methods and materials for containment and cleaning up**

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

**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, including any incompatibilities**

Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

### Exposure limit values

#### Hong Kong. OELs. (Occupational Exposure Limits for Chemical Substances in the Work Environment)

| Components                     | Type    | Value     | Form     |
|--------------------------------|---------|-----------|----------|
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | Aerosol. |

#### US. ACGIH Threshold Limit Values

| Components                     | Type    | Value     | Form     |
|--------------------------------|---------|-----------|----------|
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | Aerosol. |

### 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 controls

Use in a well ventilated area.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Not available.

#### Skin protection

**Hand protection** Recommended gloves: Nitrile 4 mil minimum thickness.

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

**Respiratory protection** Not available.

**Thermal hazards** Not available.

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Not available.

**Color** Cyan, Blue

**Odor** Not available.

**Odor threshold** Not available.

**pH** 7 - 7.4

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not determined

**Flash point** 338.0 - 347.0 °F (170.0 - 175.0 °C) Closed Cup EPA Method 1020

**Evaporation rate** Not determined

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not determined

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not determined

**Vapor density** >= 1 (air = 1.0)

### Solubility(ies)

**Solubility (water)** Soluble in water

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

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** >= 2 cp

### Other information

**Oxidizing properties** Not determined

|                  |                     |
|------------------|---------------------|
| Percent volatile | 15.84 % estimated   |
| VOC              | < 458 g/l Estimated |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | Not available.  |
| Chemical stability                 | Stable under recommended storage conditions.  |
| Possibility of hazardous reactions | Will not occur.   |
| Conditions to avoid                | Not available.  |
| Incompatible materials             | Incompatible with strong bases and oxidizing agents.  |
| Hazardous decomposition products   | 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

|              |   |
|--------------|---|
| Inhalation   | Inhalation may result in mild irritation to the respiratory system. |
| Skin contact | Contact with skin may result in mild irritation.                    |
| Eye contact  | Contact with eyes may result in mild irritation.                    |
| Ingestion    | Ingestion is not a likely route of exposure.                        |

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. LD50/oral/rat >2500 mg/kg (OECD 401).

| Components                     | Species | Test Results        |
|--------------------------------|---------|---------------------|
| 2-pyrrolidone (CAS 616-45-5)   |         |                     |
| <b>Acute</b>                   |         |                     |
| <b>Oral</b>                    |         |                     |
| LD50                           | Rat     | > 5000 mg/kg        |
| Ethylene glycol (CAS 107-21-1) |         |                     |
| <b>Acute</b>                   |         |                     |
| <b>Dermal</b>                  |         |                     |
| LD50                           | Rabbit  | 9530 mg/kg          |
| <b>Inhalation</b>              |         |                     |
| <i>Aerosol</i>                 |         |                     |
| LC50                           | Rat     | > 2.5 mg/l, 6 Hours |
| <b>Other</b>                   |         |                     |
| LD50                           | Rat     | 2800 mg/kg          |
| Substituted xanthylum salt #1  |         |                     |
| <b>Acute</b>                   |         |                     |
| <b>Oral</b>                    |         |                     |
| LD50                           | Rat     | <= 10000 mg/kg      |

Skin corrosion/irritation Based on available data, the classification criteria are not met. Non irritant in rabbit (OECD 404)

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405.

### Respiratory or skin sensitization

|                           |   |
|---------------------------|---|
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Skin sensitization        | Based on available data, the classification criteria are not met. |

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

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

### ACGIH Carcinogens

Ethylene glycol (CAS 107-21-1) A4 Not classifiable as a human carcinogen.

### Controlled and Prohibited Carcinogens List

Not available.

|   |   |
|---|---|
| <b>Reproductive toxicity</b>                              | May damage fertility or the unborn child.<br><br>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). |
| <b>Specific target organ toxicity - single exposure</b>   | Based on available data, the classification criteria are not met.   |
| <b>Specific target organ toxicity - repeated exposure</b> | May cause damage to organs (kidney) through prolonged or repeated exposure by ingestion.  |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met.   |
| <b>Further information</b>                                | Complete toxicity data are not available for this specific formulation<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures.   |

## 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)                             |                                 |                      |
| <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                           |                      |
| Ethylene glycol  | -1.36                           |                      |
| <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>        | None           |
| <b>Special precautions for user</b> | Not available. |

### IMDG

|                                |                |
|--------------------------------|----------------|
| <b>UN number</b>               | Not available. |
| <b>UN proper shipping name</b> | Not Regulated  |

**Transport hazard class(es)**  
**Class** Not available.  
**Subsidiary risk** -  
**Packing group** Not available.  
**Transport hazard class(es)**  
**Marine pollutant** No  
**EmS** Not available.  
**Special precautions for user** Not available.

**ADR**

**UN number** Not available.  
**UN proper shipping name** Not Regulated  
**Transport hazard class(es)**  
**Class** Not available.  
**Subsidiary risk** -  
**Hazard No. (ADR)** Not available.  
**Tunnel restriction code** Not available.  
**Packing group** Not available.  
**Environmental hazards** None  
**Special precautions for user** Not available.

**Further information** 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.

**15. Regulatory information**

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

**Controlled and Prohibited Carcinogens: Listed substance**

Not regulated.

**CWC. Chemical Weapons (Convention) Ordinance, Schedules of Chemicals 1-3 (L.N. 62 of 2004, as amended)**

Not regulated.

**Drug Precursors for Imports and Exports**

Not regulated.

**Drug Precursors Subject to Conditional Exports**

Not regulated.

**Listed Substances (Factories and Industrial Undertakings (Dangerous Substances) Regulations, First Schedule, as amended)**

Ethylene glycol (CAS 107-21-1)

**Narcotics and Psychotropic Substances**

Not regulated.

**Ozone Depleting Substances (ODS) (Ozone Layer Protection Ordinance, Cap. 403, July 1989)**

Not regulated.

**International regulations**

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Montreal Protocol**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

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

**Issue date** 12-Jul-2017  
**Revision date** 29-May-2020  
**Version #** 07

## Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

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

## 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  |