



# SAFETY DATA SHEET

## 1. Identification

### Important information

\*\*\* 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. \*\*\*

### Product identifier

C4821Series

### Other means of identification

None.

### Recommended use

Inkjet printing

### Recommended restrictions

None known.

### Manufacturer/Importer/Supplier/Distributor information

HP Inc.  
1501 Page Mill Road  
Palo Alto, CA 94304-1112  
United States

### Telephone

650-857-1501

### HP Inc. health effects line

#### (Toll-free within the US)

1-800-457-4209

#### (Direct)

1-760-710-0048

### HP Inc. Customer Care Line

#### (Toll-free within the US)

1-800-474-6836

#### (Direct)

1-208-323-2551

### Email:

hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

### Physical hazards

Not classified.

### Health hazards

Serious eye damage/eye irritation Category 1  
Reproductive toxicity (fertility, the unborn child) Category 1B

### Environmental hazards

Hazardous to the aquatic environment, long-term hazard Category 3

### OSHA defined hazards

Not classified.

### Label elements



### Signal word

Danger

### Hazard statement

Causes serious eye damage. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid release to the environment.

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

#### Storage

Store locked up.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**

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

**Supplemental information**

2-pyrrolidone: OSHA Hazard Communication Standard cut-off value, 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.

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**3. Composition/information on ingredients****Mixtures**

| Chemical name                               | Common name and synonyms | CAS number  | %     |
|---------------------------------------------|--------------------------|-------------|-------|
| Water                                       |                          | 7732-18-5   | 60-80 |
| 2-pyrrolidone                               |                          | 616-45-5    | <10   |
| Trimethylolpropane                          |                          | 77-99-6     | <10   |
| succinic acid                               |                          | 110-15-6    | <7.5  |
| C11-C15 secondary ethoxylated alcohols      |                          | Proprietary | <2.5  |
| Direct Blue 199<br>Tetramethylammonium Salt |                          | Proprietary | <2.5  |

**Composition comments**

This ink supply contains an aqueous ink formulation.  
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

2-pyrrolidone: OSHA Hazard Communication Standard cut-off value 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.

\*Proprietary

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**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. If irritation persists get medical attention.

**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.

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

CO2, water, dry chemical, or 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.

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**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.

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**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.

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## 8. Exposure controls/personal protection

|                                                                              |                                                                         |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <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.<br>Provide adequate ventilation.         |
| <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>                                                       | Recommended gloves: Nitrile 4 mil minimum thickness.                    |
| <b>Other</b>                                                                 | Use personal protective equipment to minimize exposure to skin and eye. |
| <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.  |

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## 9. Physical and chemical properties

### Appearance

|                                                     |                                                           |
|-----------------------------------------------------|-----------------------------------------------------------|
| <b>Physical state</b>                               | Liquid.                                                   |
| <b>Form</b>                                         | Not available.                                            |
| <b>Color</b>                                        | Cyan                                                      |
| <b>Odor</b>                                         | Not available.                                            |
| <b>Odor threshold</b>                               | Not available.                                            |
| <b>pH</b>                                           | 3.8 - 4.3                                                 |
| <b>Melting point/freezing point</b>                 | Not available.                                            |
| <b>Initial boiling point and boiling range</b>      | Not determined                                            |
| <b>Flash point</b>                                  | > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup         |
| <b>Evaporation rate</b>                             | Not determined                                            |
| <b>Flammability (solid, gas)</b>                    | Not available.                                            |
| <b>Upper/lower flammability or explosive limits</b> |                                                           |
| <b>Flammability limit - lower (%)</b>               | Not determined                                            |
| <b>Flammability limit - upper (%)</b>               | Not available.                                            |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                            |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                            |
| <b>Vapor pressure</b>                               | Not determined                                            |
| <b>Vapor density</b>                                | Not available.                                            |
| <b>Solubility(ies)</b>                              |                                                           |
| <b>Solubility (water)</b>                           | Soluble in water                                          |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                            |
| <b>Auto-ignition temperature</b>                    | Not available.                                            |
| <b>Decomposition temperature</b>                    | Not available.                                            |
| <b>Viscosity</b>                                    | >= 2 cp                                                   |
| <b>Other information</b>                            | For other VOC regulatory data/information see Section 15. |
| <b>Oxidizing properties</b>                         | Not determined                                            |
| <b>VOC</b>                                          | < 221 g/l Estimated                                       |

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## 10. Stability and reactivity

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

Material name: C4821Series

9456 Version #: 10 Revision date: 15-Sep-2020 Issue date: 16-Apr-2015

SDS US

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|                                           |                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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>   | Inhalation may result in mild irritation to the respiratory system. |
| <b>Skin contact</b> | Contact with skin may result in mild irritation.                    |
| <b>Eye contact</b>  | Causes serious eye damage.                                          |
| <b>Ingestion</b>    | 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.

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

2-pyrrolidone (CAS 616-45-5)

#### Acute

##### Oral

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

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

**Serious eye damage/eye irritation** Causes serious eye damage.

### 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.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

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

**Aquatic toxicity** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Static acute toxicity (trout), survival (100 mg/L) = 90%  
Static acute toxicity (trout), survival (10 mg/L) = 100%

### Ecotoxicity

| Product                                  |      | Species                                       | Test Results            |
|------------------------------------------|------|-----------------------------------------------|-------------------------|
| C4821Series                              |      |                                               |                         |
| <b>Aquatic</b>                           |      |                                               |                         |
| <i>Acute</i>                             |      |                                               |                         |
| Algae                                    | EC50 | Algae                                         | > 100 mg/l, 72 hours    |
| Crustacea                                | EC50 | Daphnia                                       | > 66 mg/l, 48 hours     |
| Fish                                     | LC50 | Fathead minnow ( <i>Pimephales promelas</i> ) | < 400 mg/l, 96 hours    |
| <b>Components</b>                        |      | <b>Species</b>                                | <b>Test Results</b>     |
| 2-pyrrolidone (CAS 616-45-5)             |      |                                               |                         |
| <b>Aquatic</b>                           |      |                                               |                         |
| Crustacea                                | EC50 | Water flea ( <i>Daphnia pulex</i> )           | 13.21 mg/l, 48 hours    |
| Direct Blue 199 Tetramethylammonium Salt |      |                                               |                         |
| <b>Aquatic</b>                           |      |                                               |                         |
| Crustacea                                | EC50 | Daphnia                                       | 50 - 100 mg/l, 48 Hours |
| succinic acid (CAS 110-15-6)             |      |                                               |                         |
| <b>Aquatic</b>                           |      |                                               |                         |
| Fish                                     | LC50 | Fish                                          | 101, 96 Hours           |
| Trimethylolpropane (CAS 77-99-6)         |      |                                               |                         |
| <b>Aquatic</b>                           |      |                                               |                         |
| Crustacea                                | EC50 | Daphnia                                       | 102, 48 Hours           |
| Fish                                     | LC50 | Fish                                          | 1000, 96 Hours          |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

#### Partition coefficient n-octanol / water (log Kow)

|               |       |
|---------------|-------|
| 2-pyrrolidone | -0.85 |
| succinic acid | -0.59 |

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** 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

|                                     |                |
|-------------------------------------|----------------|
| <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**

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

**IMDG**

**UN number** Not available.  
**UN proper shipping name** 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** No  
**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**

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

**Toxic Substances Control Act (TSCA)****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**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Serious eye damage or eye irritation  
Reproductive toxicity

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

No intentionally added HAP substances.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Other information**

VOC content (less water, less exempt compounds) = &lt;693 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, including date of preparation or last revision****Issue date**

16-Apr-2015

**Revision date**

15-Sep-2020

**Version #**

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**Other information**

This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

**Disclaimer**

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

**Revision information**

1. Product and Company Identification: Product and Company Identification

**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                                          |