



# SAFETY DATA SHEET

## 1. Identification of the chemical and information about the manufacturer or supplier

**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. \*\*\*

### 1.1 Identification of the chemical products

**1.1.1 Technical name** C4841Series

**Other means of identification** None.

### 1.1.2 Recommended use of the chemical and restrictions on use

**Recommended use** Inkjet printing

**Limitations on use** None known.

### 1.2 Manufacturer/Importer/Supplier/Distributor information

#### 1.2.1 Manufacturer

ZAO Hewlett-Packard A.O.  
Highway Leningradskoe, House 16A, Building 3,  
125171, Moscow

**Telephone** 7 495 797-3500

#### 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](mailto:hpcustomer.inquiries@hp.com)

## 2. Hazard(s) identification

### 2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

**Classification according to GOST 12.1.007-76** Not available.

#### GHS classification

**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

### 2.2 Labeling elements in compliance with GOST 31340-2013

**2.2.1 Signal word** Danger

#### 2.2.2 Symbols



#### 2.2.3 Hazard statement

H318 Causes serious eye damage.  
H360 May damage fertility or the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

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.  
P273 Avoid release to the environment.

**Response**

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/physician.

P308 + P313

IF exposed or concerned: Get medical advice/attention.

**Storage**

P405

Store locked up.

**Disposal**

P501

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

**Other hazards**

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: 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****3.1 Information on product as a whole****3.1.1 Chemical name** C4841Series**(IUPAC)****3.1.2 Chemical formula** Not available.**3.1.3 General description** Not available.**of the composition (taking into account the brand assortment; preparation method)****3.2 Components****Hygienic standards in the working area**

Components	Concentration by weight (%)	MAC, mg/m <sup>3</sup>	TSEL, mg/m <sup>3</sup>	Hazard classification	CAS-No.	EC No.
Water	60-80	None.	None.		7732-18-5	231-791-2
2-pyrrolidone	<10	10 Aerosol.	None.	4	616-45-5	210-483-1
Trimethylolpropane	<10	50 Vapor.	None.	4	77-99-6	201-074-9
succinic acid	<7.5	None.	None.		110-15-6	203-740-4
C11-C15 secondary ethoxylated alcohols	<2.5	None.	None.		68131-40-8	-
Di(tetramethylammonium)(29H,31H-phthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate, cuprate(2-)complex, derivatives	<2.5	None.	None.		12222-04-7	416-180-2

**Composition comments**

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.

This ink supply contains an aqueous ink formulation.

**4. First-aid measures****4.1. Observed symptoms****4.1.1 In case of exposure via inhalation**

Inhalation may result in mild irritation to the respiratory system.

**4.1.2 In contact with skin**

Contact with skin may result in mild irritation.

**4.1.3 In contact with eyes**

Causes serious eye damage.

**4.1.4 In case of exposure via ingestion**

Ingestion is not a likely route of exposure.

## 4.2 First-aid measures to be provided to victims

- |  |   |
|--|---|
| 4.2.1 In case of exposure via inhalation | Move to fresh air. If symptoms persist, get medical attention.  |
| 4.2.2 In contact with skin               | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.  |
| 4.2.3 In contact with eyes               | 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. |
| 4.2.4 In case of exposure via ingestion  | If ingestion of a large amount does occur, seek medical attention.  |
| 4.2.5 Contraindications                  | Not available.  |

---

## 5. Fire-fighting and explosion safety measures and means

- |   |                                   |
|---|-----------------------------------|
| 5.1 General characteristics of fire-explosion properties                          | Not available.                    |
| 5.2 Fire-explosion indicators   | Not available.                    |
| 5.3 Combustion and/or thermal destruction products and hazards arising from these | Not available.                    |
| 5.4 Recommended extinguishing media   | CO2, water, dry chemical, or foam |
| 5.5 Forbidden extinguishing media   | None known.                       |
| 5.6 Special protective equipment for firefighters                                 | Not available.                    |
| 5.7 Specific extinguishing methods  | None established.                 |

---

## 6. Accident and emergency prevention and response measures and their consequences

### 6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

- |  |   |
|--|---|
| 6.1.1 General required actions in case of an accident or emergency | Wear appropriate personal protective equipment. |
| 6.1.2 Personal protection equipment in case of the accident        | Not available.                                  |

### 6.2 Procedures for the elimination of accidents and emergencies

- |   |  |
|---|--|
| 6.2.1 Procedures in case of leaks, spills, splashes | Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations. |
| 6.2.2 Actions in case of fire                       | Not available.   |

**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. Storage and handling requirements of chemicals during loading and unloading

### 7.1 Safety precautions when handling chemical products

- |   |   |
|---|---|
| 7.1.1 Technical safety measures                           | Not available.                              |
| 7.1.2 Environmental protection measures                   | Not available.                              |
| 7.1.3 Recommended safe handling and transportation advice | Avoid contact with skin, eyes and clothing. |

### 7.2 Chemical storage requirements

- |   |                |
|---|----------------|
| 7.2.1 Terms and conditions for safe storage | Not available. |
| 7.2.2 Packaging                             | Not available. |

### 7.3 Safety measures and storage requirements at domestic use

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

---

## 8. Equipment for monitoring exposure and personal protective equipment

### 8.1 Parameters of the working area that require monitoring

#### Occupational exposure limits

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended

Components	Type	Value	Form
2-pyrrolidone (CAS 616-45-5)	Ceiling	10 mg/m3	Aerosol.
Trimethylolpropane (CAS 77-99-6)	Ceiling	50 mg/m3	Vapor.

#### 8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration

Exposure limits have not been established for this product.

#### Appropriate engineering controls

Use in a well ventilated area.  
Provide adequate ventilation.

### 8.3 Worker personal protective equipment

#### 8.3.1 General recommendations

Not available.

#### 8.3.2 Respiratory protection

Not available.

#### 8.3.3 Protective equipment

##### Eye/face protection

Not available.

##### Hand protection

Recommended gloves: Nitrile 4 mil minimum thickness.

##### Other

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

#### Thermal hazards

Not available.

#### 8.3.4 Personal protection equipment in case of domestic use

Not applicable.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

---

## 9. Physical and chemical properties

### 9.1 Physical appearance

#### Physical state

Liquid.

#### Form

Not available.

#### Color

Cyan

#### Odor

Not available.

#### Odor threshold

Not available.

### 9.2 Parameters characterizing basic properties of the product

#### pH

3.8 - 4.3

#### Melting point/freezing point

Not available.

#### Initial boiling point and boiling range

Not determined

#### Flash point

> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup

#### Auto-ignition temperature

Not available.

#### Decomposition temperature

Not available.

#### Upper/lower flammability or explosive limits

##### Flammability limit - lower (%)

Not determined

##### Flammability limit - upper (%)

Not available.

#### Vapor pressure

Not determined

#### Density

1.06 g/cm3

#### Viscosity

>= 2 cp

#### Solubility(ies)

##### Solubility (water)

Soluble in water

---

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Other data</b>	
Evaporation rate	Not determined
Oxidizing properties	Not determined
Percent volatile	10 % estimated
VOC	< 221 g/l Estimated

## 10. Stability and reactivity

<b>10.1 Chemical stability</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>10.2 Reactivity</b>	Not available.
<b>10.3 Conditions to avoid</b>	Not available.
<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Incompatible materials</b>	Incompatible with strong bases and oxidizing agents.

## 11. Toxicological information

<b>11.1 General exposure characteristics</b>	Not available.
<b>11.2 Routes of exposure</b>	Not available.
<b>11.3 Affected/target organs, tissues and systems of humans</b>	
<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>	Based on available data, the classification criteria are not met.
<b>11.4 Information on health hazards in case of direct exposure to the product and its effect</b>	
<b>Effect on upper respiratory tract irritation</b>	Not available.
<b>Respiratory or skin sensitization</b>	Not available.
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. Non irritant in rabbit (OECD 404)
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>11.5 Information on long-term hazardous health effects</b>	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	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).
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Cumulativeness</b>	Not available.
<b>Chronic effects</b>	Not available.
<b>11.6 Acute toxicity data</b>	Based on available data, the classification criteria are not met.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

**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. Environmental impact 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%

**12.1 General description of the impact on the environment** Not available.

**12.2 Routes of exposure to environment** Not available.

**12.3 The most important characteristics of the environmental impact**

**12.3.1 Hygienic standards** Not available.

**12.3.2 Ecotoxicity**

Product		Species	Test Results
C4841Series			
<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
Components		Species	Test Results

2-pyrrolidone (CAS 616-45-5)

**Aquatic**

Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	13.21 mg/l, 48 hours
-----------	------	-------------------------------------	----------------------

Di(tetramethylammonium)(29H,31H-phthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate, cuprate(2-)complex, derivatives (CAS 12222-04-7)

**Aquatic**

Crustacea	EC50	Daphnia	50 - 100 mg/l, 48 Hours
-----------	------	---------	-------------------------

succinic acid (CAS 110-15-6)

**Aquatic**

Fish	LC50	Fish	101, 96 Hours
------	------	------	---------------

Trimethylolpropane (CAS 77-99-6)

**Aquatic**

Crustacea	EC50	Daphnia	102, 48 Hours
-----------	------	---------	---------------

Fish	LC50	Fish	1000, 96 Hours
------	------	------	----------------

**12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes**

**Persistence and degradability** Not available.

**Bioaccumulative potential****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. Recommendations for waste (residues) disposal**

**13.1 Safety precautions when handling the waste generated during use, storage, transportation** 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>.

**13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging** Not available.

13.3 Recommendation on the waste disposal generated during its domestic use Not available.

---

## 14. Transport information

### DOT

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  
Marine pollutant No  
Special precautions for user 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. National and international regulatory information

### 15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

### 15.2 International Conventions and Agreements

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****16.1 Information on revision of the SDS**

<b>Issue date</b>	27-Jun-2013
<b>Revision date</b>	06-Jun-2020
<b>Version #</b>	09
<b>Previous SDS number</b>	Not applicable.

**16.2 List of references used in compiling the safety data sheet**

Not available.

**Disclaimer**

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. 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.

**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