



# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
1 / 9

## 1. Identification of the substance/mixture and of the company/undertaking

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### 1.1. Substance/Mixture identifier

C4846Series

**Other means of identification** None.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Inkjet printing

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

HP Computer and Printing Technologies Limited Liability Company  
Saray Mahallesi Dr. Adan Buyukdeniz Caddesi No:4 Umraniye, Pt. 8th Floor  
Istanbul, TURKEY 34752

**Telephone** +90 212 224 5925

### 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

### 1.4. Emergency Telephone Number

**National Poison** 114

**Information Center (UZEM)**

**Emergency Health Services** 112

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**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. Label elements

Labeling in accordance with Regulation 28848 regarding the Classification, Packaging and Labeling of Substances and Preparations 11/12/2013

**Contains:** 2-pyrrolidone, succinic acid

**Hazard pictograms**



**Signal word** Danger

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
2 / 9

## Hazard statements

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

## Precautionary statements

### 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.

## 2.3. 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

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	Notes
Water	60-80	7732-18-5 231-791-2	
<b>Classification:</b>	-		
2-pyrrolidone	<10	616-45-5 210-483-1	
<b>Classification:</b>	Eye Irrit. 2;H319, Repr. 1B;H360		
Trimethylolpropane	<10	77-99-6 201-074-9	
<b>Classification:</b>	Repr. 2;H361		
succinic acid	<7.5	110-15-6 203-740-4	
<b>Classification:</b>	Eye Dam. 1;H318		
C11-C15 secondary ethoxylated alcohols	<2.5	68131-40-8 -	
<b>Classification:</b>	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 1;H410		
Di(tetramethylammonium)(29H,31H-p hthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate, cuprate(2-)complex, derivates	<2.5	12222-04-7 416-180-2	
<b>Classification:</b>	Acute Tox. 4;H302, STOT RE 2;H373, Aquatic Chronic 2;H411		

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
3 / 9

---

<b>Composition comments</b>	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.
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## 4. First aid measures

### 4.1. Description of 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. If irritation persists get medical attention.
<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.

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

**General information** Not available.

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## 5. Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Unsuitable extinguishing media</b>	None known.

**5.2. Special hazards arising from the substance or mixture** Not available.

### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Not available.
<b>Special fire fighting procedures</b>	Not available.

**Specific methods** None established.

**General fire hazards** Not available.

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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Wear appropriate personal protective equipment.
<b>For emergency responders</b>	Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. 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.

**6.4. Reference to other sections** Not available.

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## 7. Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
4 / 9

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**7.2. Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from excessive heat or cold.

**7.3. Specific end use(s)** Not available.

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).  
**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Recommended monitoring procedures** Not available.  
**Exposure guidelines** Exposure limits have not been established for this product.

### 8.2. Exposure controls

**Appropriate engineering controls** Use in a well ventilated area.  
Provide adequate ventilation.

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

**General information** Not available.  
**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.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Not available.

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Liquid.  
**Form** Not available.  
**Color** Cyan

**Odor** Not available.

**Odor threshold** Not available.

**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

**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.

**Vapor pressure** Not determined

**Vapor density** Not available.

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
5 / 9

## Solubility(ies)

<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>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not determined
<b>9.2. Other information</b>	
<b>Percent volatile</b>	10 % estimated
<b>VOC</b>	< 221 g/l Estimated

## 10. Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	Will not occur.
<b>10.4. Conditions to avoid</b>	Not available.
<b>10.5. Incompatible materials</b>	Incompatible with strong bases and oxidizing agents.
<b>10.6. 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

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<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.
<b>Symptoms</b>	Not available.

### 11.1. Information on toxicological effects

**Acute toxicity** 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

**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.

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
6 / 9

<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>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>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	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

### 12.1. Toxicity

**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%

Product		Species	Test Results
C4846Series			
	<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 (Pimephales promelas) < 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 (Daphnia pulex) 13.21 mg/l, 48 hours
Di(tetramethylammonium)(29H,31H-phthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate, cuprate(2-)complex, derivates (CAS 12222-04-7)			
	<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

**12.2. Persistence and degradability** Not available.

**12.3. Bioaccumulative potential** Not available.

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

2-pyrrolidone	-0.85
succinic acid	-0.59

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
7 / 9

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<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

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## 13. Disposal information

### 13.1. Waste treatment methods

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>Disposal methods/information</b>	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>.

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## 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>	-

# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
8 / 9

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<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

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### List of Priority Substances, By-Law on Inventory and Control of Chemicals, No 27092

Not listed.

#### Prohibited Chemicals at Work. Regulation on Protection of Health and Safety Measures from Risks related to Chemical Agents at Work, Annex III

Not listed.

#### 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.

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## 16. Other information

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child.  
H361 Suspected of damaging fertility or the unborn child by skin contact.  
H373 May cause damage to organs through prolonged or repeated exposure by ingestion.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

#### Revision information

None.

#### Training information

Follow training instructions when handling this material.

#### Compiler of the Safety Data Sheet

HP Inc.

#### Competency certificate number

Not available.



# SAFETY DATA SHEET

Product name: C4846Series

Revision number: 05  
Date of SDS: 05-Oct-2018  
Date of revision: 06-Jun-2020

SDS TURKEY  
9 / 9

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<b>Competency certificate date</b>	Not available.
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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