

## SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

C4816Series

designation of the mixture

Registration number

**Synonyms** None.

**Issue date** 05-Mar-2015

Version number 03

**Revision date** 11-Oct-2015 **Supersedes date** 28-Aug-2015

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

Identified usesInkjet printingUses advised againstNone known.Company identificationHP Inc UK Limited

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HP health effects line

(Toll-free within the US) 1-800-457-4209

(Direct) 1-760-710-0048 HP Customer Care Line

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 1,5-pentanediol, 2-pyrrolidone, Alkyldicarboxylic acid, Water

Hazard pictograms None.

Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label

information

None.

**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.

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Material name: C4816Series SDS UK

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	65-75	7732-18-5 231-791-2	-	-	
Classification:	-				
1,5-pentanediol	< 15	111-29-5 203-854-4	01-2119449341-44-XXXX	-	
Classification:	-				
2-pyrrolidone	< 7.5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
Alkyldicarboxylic acid	< 7.5	Proprietary	01-2119896114-34-XXXX	-	
Classification:	- Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335				

# **SECTION 4: First aid measures**

**Composition comments** 

**General information** Not available.

4.1. Description of first aid measures

**Inhalation** Remove 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

This ink supply contains an aqueous ink formulation.

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.

4.2. Most important

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

needed

Not available.

Not available.

### **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

Unsuitable extinguishing

media

media

None known.

5.2. Special hazards arising from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

procedures

Not available.

**Specific methods** None established.

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#### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

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 material for

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

containment and cleaning up

or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other

sections

Not available.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

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.

## **SECTION 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.

**Derived no-effect level** 

(DNEL)

Not available.

**Predicted no effect** concentrations (PNECs) 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.

Individual protection measures, such as personal protective equipment

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

Eye/face protection Not available.

Skin protection

Not available. - Hand protection - Other Not available. Not available. Respiratory protection Thermal hazards Not available.

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

**Environmental exposure** 

controls

Not available.

### **SECTION 9: Physical and chemical properties**

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

**Appearance** 

Physical state Liauid. Color Magenta Odor Not available. **Odor threshold** Not available. 3.8 - 4.2pН Not available. Melting point/freezing point Initial boiling point and Not determined

boiling range

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Flash point > 200.0 °F (> 93.3 °C) Setaflash 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

Solubility(ies)

Solubility (water) Soluble in water Solubility (other) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** >= 2 cp**Explosive properties** Not available. Oxidizing properties Not determined

9.2. Other information

VOC (Weight %) 191.37 q/l

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous Will not occur.

reactions

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon 10.6. Hazardous

dioxide and/or low molecular weight hydrocarbons. decomposition products

#### **SECTION 11: Toxicological information**

**General information** Not available. 11.1. Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

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

Respiratory sensitization

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

Germ cell mutagenicity Carcinogenicity Reproductive toxicity

Skin sensitization

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

Specific target organ toxicity - single exposure

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

**Aspiration hazard** 

Specific target organ toxicity

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

- repeated exposure

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

**Components Test Results Species** 

2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral

LD50 Guinea pig 6500 mg/kg

Rat 6500 mg/kg

Material name: C4816Series SDS UK

Components Species Test Results

Alkyldicarboxylic acid (CAS Proprietary)

Acute Oral

LD50 Rat 2260 mg/kg

Mixture versus substance

information

Not available.

**Other 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.

**SECTION 12: Ecological information** 

**Aquatic toxicity** Static acute toxicity (trout), survival (100 mg/L) = 100%

Static acute toxicity (trout), survival (10 mg/L) = 100%

12.1. Toxicity

Product Species Test Results

C4816Series (CAS Mixture)

**Aquatic** *Acute* 

Fish LC50 Fathead minnow (Pimephales promelas) 417 mg/l, 96 hours

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Alkyldicarboxylic acid (CAS Proprietary)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 350 - 400 mg/l, 48 hours

Fish LC50 Fish 101, 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 Alkyldicarboxylic acid -0.59

**Bioconcentration factor (BCF)** Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBT Not a PBT or

and vPvB assessment

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

Residual wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

**Disposal** Do not allow this material to drain into sewers/water supplies.

methods/information 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.

**SECTION 14: Transport information** 

DOT

Not regulated as dangerous goods.

Material name: C4816Series SDS UK

#### **IATA**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

#### **ADR**

Not regulated as dangerous goods.

**Further information** 

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

### **SECTION 15: Regulatory information**

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

#### **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

#### **Authorizations**

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

### Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Other 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.

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### Other information

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

National regulations 15.2. Chemical safety

Not available. Not available.

assessment

#### **SECTION 16: Other information**

References
Information on evaluation
method leading to the
classification of mixture

Not available. Not available.

Issue date05-Mar-2015Revision informationNone.Training informationNot available.

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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.

Manufacturer information HP

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#### **Explanation of abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

**COC** Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

**SARA** Superfund Amendments and Reauthorization Act of 1986

**STEL** Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

**List of abbreviations** Not available.

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