

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C5085Series

designation of the mixture

Registration number

**Synonyms** None.

**Issue date** 06-Aug-2014

Version number 04

**Revision date** 21-May-2016 **Supersedes date** 09-Sep-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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(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 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: C5085Series SDS UK

9403 Version No.: 04 Revision date: 21-May-2016 Print date: 21-May-2016

## **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:	Eye Dam. 1;H318	-			

# **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

Dry chemical, CO2, water spray or regular foam.

media

**Unsuitable extinguishing** None known.

media

5.2. Special hazards arising from the substance or

Not available.

mixture

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 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.

# **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).

Not available.

Recommended monitoring

procedures

## **Derived no-effect level (DNEL)**

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Consumers	Dermal	6 mg/kg bw/d	Systemic long term
		Dermal	167 mg/kg bw/d	Systemic acute short term
		Inhalation	17.1 mg/m3	Systemic long term
		Oral	5.2 mg/kg bw/d	Systemic long term
		Oral	33.3 mg/kg bw/d	Systemic acute short term
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
Alkyldicarboxylic acid (CAS Proprietary)	Consumers	Dermal	67 mg/kg	Systemic short term
		Dermal	43 mg/kg	Systemic long term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term
		Oral	67 mg/kg	Systemic short term
	Workers	Dermal	71 mg/kg	Systemic long term
		Dermal	67 mg/kg	Systemic short term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term

#### Predicted no effect concentrations (PNECs)

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l	
		Intermittant	0.5 mg/l	Releases
		Marine water	0.05 mg/l	
		Sediment	0.4205 mg/kg	Freshwater
		Soil	0.0612 mg/kg	
		STP	10 mg/l	Sewage Treatment Plant
Alkyldicarboxylic acid (CAS Proprietary)	Not applicable	Freshwater	0.1 mg/l	

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Components	Туре	Route	Value	Form
		Intermittant	1 mg/l	Releases
		Marine water	0.01 mg/l	
		Sediment	0.079 mg/kg	Freshwater
		Sediment	0.0079 mg/kg	Marine water
		Soil	0.0177 mg/kg	
		STP	3 ma/l	Sewage Treatment Plant

**Exposure guidelines** Exposure limits have not been established for this product.

8.2. Exposure controls

**Appropriate engineering** Use in a well ventilated area.

controls

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

- Hand protection Not available. - Other Not available. **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.

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

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

**Appearance** 

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

boiling range

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup Flash point

**Evaporation rate** Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not determined

(%)

Flammability limit -

Not available.

upper (%)

Vapor pressure Not determined

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information

< 157 g/l estimated VOC (Weight %)

Material name: C5085Series SDS UK **SECTION 10: Stability and reactivity** 

10.1. Reactivity Not available.

Stable under recommended storage conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

Will not occur.

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

decomposition products dioxide and/or low molecular weight hydrocarbons.

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

irritation

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.

Reproductive toxicity Specific target organ toxicity

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

Specific target organ toxicity

- repeated exposure

- single exposure

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

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Acute** Oral

LD50 Guinea pig 6500 mg/kg Rat

6500 mg/kg

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** 

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

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

12.1. Toxicity

**Test Results Product Species** 

C5085Series

**Aquatic** 

Acute

Fish LC50 434 mg/l, 96 hours Fathead minnow (Pimephales promelas)

**Components Test Results Species** 

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

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

Material name: C5085Series SDS UK

Version No.: 04 Revision date: 21-May-2016 Print date: 21-May-2016 Components Species Test Results

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 Pl

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 waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

Disposal methods/information

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.

# **SECTION 14: Transport information**

DOT

Not regulated as dangerous goods.

**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

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.

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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

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

Restrictions on use

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

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

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

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Directive 94/33/EC on the protection of young people at work

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

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).

**National regulations** 

Not available.

15.2. Chemical safety

See attached SUMI or GEIS document, if applicable.

assessment

Disclaimer

# **SECTION 16: Other information**

Not available. References Information on evaluation Not available.

method leading to the classification of mixture

**Issue date** 06-Aug-2014

**Revision information** None.

Not available.

**Training information** 

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Material name: C5085Series SDS UK

Version No.: 04 Revision date: 21-May-2016 Print date: 21-May-2016 **Manufacturer information** HP Inc.

1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

## **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

National Institute for Occupational Safety and Health **NIOSH** 

**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

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

**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.

Material name: C5085Series SDS UK 9403 Version No.: 04 Revision date: 21-May-2016 Print date: 21-May-2016

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# Safe Use of Mixture Information (SUMI)

#### Water Based Ink: WB01 \*English\*

#### Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.

The REACH registration number(s), where applicable, completes an extended product SDS.

Operational conditions	
Maximum duration	Up to 8 hours per day
Frequency of exposure	< 240 days per year
Process conditions	Covers use at ambient temperatures.
	Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides
	guidelines to ensure acceptable air quality in the workspace.
	Avoid direct contact.
	Regular cleaning of equipment and work area.
	Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions
	followed.
Risk management measures	
Conditions and measures	Wear safety glasses with side shields (or goggles), if splashing is possible.

related to Personal Protection Equipment, hygiene and health evaluation

Wear appropriate chemical resistent gloves: see section 8 of the SDS.

Wear appropriate chemical resistent clothing.

In case of inadequate ventilation wear respiratory protection.

Eye wash fountain and emergency showers are recommended.

Avoid breathing mist/vapours.

Avoid contact with skin, eyes and clothing.

Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.









#### Good practice advice

Use personal protective equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do no eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.





#### **Environmental measures**

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

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Ensure collection and disposal with appropriately licenced waste contractor.

## Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

PC18-Inks and Toners

PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities

ERC5-Use at industrial site leading to inclusion into/onto article

ERC8c-Widespread use leading to inclusion into/onto article (indoor)

#### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.

Most of the water based inks are "not classified".

The classification of the mixture is based on the individuel ingredients and their concentration within the mixture.

All ingredients contributing to the classification are stated in Section 3 of the SDS.

Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people.

Section 2 of the SDS states these ingredients where applicable.