

# SAFETY DATA SHEET

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

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. \*\*\*

CN045Series

1.1. Product identifier

Trade name or designation

of the mixture

Registration number -

Synonyms None.

Issue date 07-May-2015

Version number 06

Revision date 01-Jun-2019 Supersedes date 04-May-2019

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

Identified usesInkjet printingUses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

HP Inc. UK Limited
Cain Road, Amen Corner
Bracknell, Berkshire RG12 1HN

United Kingdom

**Telephone** 44 (0) 879 013 0790

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

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:** 2-pyrrolidone, Carbon black, Water

Hazard pictogramsNone.Signal wordNone.Hazard statementsNone

**Precautionary statements** 

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

**Supplemental label information** Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

Material name: CN045Series SDS UK

#### 2.3. Other hazards

Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation. Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. Complete toxicity data are not available for this specific formulation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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

#### 3.2. Mixtures

**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
 Water	70-80	7732-18-5	-	-	
		231-791-2			
Classification:	-				
2-pyrrolidone	< 15	616-45-5	01-2119475471-37-XXXX	-	
		210-483-1			
Classification:	Eye Irrit. 2;H319				
Carbon black	< 5	1333-86-4	01-2119384822-32-XXXX	-	
		215-609-9			
Classification:	-				
Classification:	- This ink supply c	ontains an aqueous ir	nk formulation.		
	Carbon black is a	oresent only in a boun	d form in this preparation.		

#### **SECTION 4: First aid measures**

**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

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.

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

**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

Unsuitable extinguishing

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

media

None known.

media
5.2. Special hazards arising

Not available.

from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

Not available.

procedures
Specific methods

None established.

Material name: CN045Series sps uk

#### **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.

Not available. 7.3. Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Value Components Type 7 mg/m3 Carbon black (CAS **STEL** 1333-86-4) **TWA** 3.5 mg/m3

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Not available.

#### Derived no effect levels (DNELs)

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
Carbon black (CAS 1333-86-4)	Consumers	Inhalation	1.75 mg/m3	Local long term
		Inhalation	0.06 mg/m3	Systemic long term
	Workers	Inhalation	2 mg/m3	Local long term
		Inhalation	1 mg/m3	Systemic long term

#### Predicted no effect concentrations (PNECs)

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l	
		Intermittent	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
Carbon black (CAS 1333-86-4)	Not applicable	Freshwater	5 mg/l	
		Marine water	5 mg/l	

**Exposure guidelines** 

Exposure limits have not been established for this product.

8.2. Exposure controls

Appropriate engineering

Use in a well ventilated area.

controls

Material name: CN045Series SDS UK

11120 Version #: 06 Revision date: 01-Jun-2019 Issue date: 07-May-2015

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.

Form Not available.

Color Black.

Odor Not available.
Odor threshold Not available.
pH 7.5 - 9
Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point

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

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidizing properties

Not available.

Not available.

Not available.

Not determined

9.2. Other information

Percent volatile 12.5 % estimated

**VOC** < 229 g/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

reactions

Will not occur.

10.4. Conditions to avoid Not available.

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

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

**decomposition products** dioxide and/or low molecular weight hydrocarbons.

Material name: CN045Series sps uk

**SECTION 11: Toxicological information** 

**General information** Not available.

Information on likely routes of exposure

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Inhalation

Contact with skin may result in mild irritation. Skin contact Eve contact Contact with eyes may result in mild irritation.

Health injuries are not known or expected under normal use. Ingestion

Not available. **Symptoms** 

11.1. Information on toxicological effects

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral LD50

Rat > 5000 mg/kg

Carbon black (CAS 1333-86-4)

**Acute** Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

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

Not classified as an irritant according to, OECD 405.

irritation

Based on available data, the classification criteria are not met. Respiratory sensitization Based on available data, the classification criteria are not met. Skin sensitization Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity

> Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a

bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Reproductive toxicity Specific target organ toxicity -

single exposure

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

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

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

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** 

12.1. Toxicity

This product has not been tested for ecological effects. **Aquatic toxicity** 

Components **Species** Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative potential Not available.

Material name: CN045Series

11120 Version #: 06 Revision date: 01-Jun-2019 Issue date: 07-May-2015

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

**12.5. Results of PBT**Not a PBT or vPvB substance or mixture.

and vPvB assessment

**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

Not listed.

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

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 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

Material name: CN045Series sps uk

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

Not regulated.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

All chemical substances in this HP product have been notified or are exempt from notification Other regulations

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 (EU) 2015/830.

> Classification according to Regulation (EC) No 1272/2008 as amended. 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 assessment

See attached SUMI or GEIS document, if applicable.

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

References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation. Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

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

H319 Causes serious eye irritation.

not written out in full under Sections 2 to 15

**Revision information** 

None.

**Training information** 

Follow training instructions when handling this material.

Disclaimer

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.

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.

Material name: CN045Series SDS UK

## **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

Material name: CN045Series sps uk

# Safe Use of Mixture Information (SUMI)

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# 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.

## Conditions and measures 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.



# SAFETY DATA SHEET

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

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. Product identifier

glossary\_trade\_name CN046Series

Identification number - Registration number -

Synonyms None.

Issue date 01-Apr-2015

Version number 09

Revision date 26-May-2019 Supersedes date 25-May-2019

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

Identified usesInkjet printingUses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

HP Inc. UK Limited
Cain Road, Amen Corner
Bracknell, Berkshire RG12 1HN

United Kingdom

**Telephone** 44 (0) 879 013 0790

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

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

0207771 5307

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-(2-hydroxyethyl)-2-pyrrolidone, 2,4,7,9-Tetramethyl-5-decyne-4,7-diol, 2-pyrrolidone, Water

Hazard pictograms None.

Signal word None.

Hazard statements None

**Precautionary statements** 

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

**Supplemental label information** Contains 1,2-Benzisothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one. May produce an allergic

reaction.

Material name: CN046Series sps uk

12092 Version #: 09 Revision date: 26-May-2019 Issue date: 01-Apr-2015

#### 2.3. Other hazards

Complete toxicity data are not available for this specific formulation. 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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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

#### 3.1. Substances

**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	75-85	7732-18-5	-	-	
Classification:		231-791-2			
1-(2-hydroxyethyl)-2-pyrrolidone	< 10	3445-11-2 222-359-4	01-2119977089-21-XXXX	-	
Classification: -		222 000 1			
2-pyrrolidone	< 7.5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification: Eye Irrit. 2;H3	319				
2,4,7,9-Tetramethyl-5-decyne-4,7-diol	<1	126-86-3 204-809-1	01-2119954390-39-XXXX	-	
Classification: Skin Sens. 1;	H317, Ey	/e Dam. 1;H318, Aqu	atic Chronic 3;H412		
Crodafos 03a	<1	39464-69-2	-	-	
Classification:		-			

# **Composition comments**

This ink supply contains an aqueous ink formulation.

# **SECTION 4: First aid measures**

**General information** Wash affected areas thoroughly with mild soap and water.

4.1. Description of first aid measures

Move to fresh air. If symptoms persist, get medical attention. Inhalation

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

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

Not available.

delayed 4.3. Indication of any

immediate medical attention and special treatment needed Not available.

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

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing None known.

media

Dry chemical, CO2, water spray or regular foam.

5.2. Special hazards arising

from the substance or mixture

Not available.

5.3. Advice for firefighters

Special protective

Not available.

equipment for firefighters

Material name: CN046Series

12092 Version #: 09 Revision date: 26-May-2019 Issue date: 01-Apr-2015

Special fire fighting procedures

Not available.

Specific methods

None established.

### **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

Avoid contact with skin, eyes and clothing.

handling

7.2. Conditions for safe storage, including any incompatibilities

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

Route

Inhalation

Inhalation

Inhalation

Value

1.29 mg/m3

0.43 mg/m3

5.28 mg/m3

**Form** 

Systemic short term

Systemic long term

Systemic short term

7.3. Specific end use(s) Not available.

2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Occupational exposure limits 
No exposure limits noted for ingredient(s).

Biological limit values

Components

126-86-3)

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

Not available.

**Type** 

Consumers

Workers

procedures

Derived no effect levels (DNELs)

		Inhalation	1.76 mg/m3	Systemic long term
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
Predicted no effect concentrations (PNE	Cs)			
Components	Туре	Route	Value	Form
2,4,7,9-Tetramethyl-5-decyne-4,7-diol (126-86-3)	(CAS Not applicable	Freshwater	0.04 mg/l	
		Intermittent	0.4 mg/l	Releases
		Intermittent Marine water	0.4 mg/l 0.004 mg/l	Releases
			•	Releases Freshwater
		Marine water	0.004 mg/l	
		Marine water Sediment	0.004 mg/l 0.32 mg/kg	Freshwater
		Marine water Sediment Sediment	0.004 mg/l 0.32 mg/kg 0.032 mg/kg	Freshwater
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg	Freshwater Marine water
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil STP	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg 7 mg/l	Freshwater Marine water
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil STP Freshwater	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg 7 mg/l 0.5 mg/l	Freshwater Marine water Sewage Treatment Plant
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil STP Freshwater Intermittent	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg 7 mg/l 0.5 mg/l	Freshwater Marine water Sewage Treatment Plant
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil STP Freshwater Intermittent Marine water	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg 7 mg/l 0.5 mg/l 0.5 mg/l	Freshwater Marine water Sewage Treatment Plant Releases
2-pyrrolidone (CAS 616-45-5)	Not applicable	Marine water Sediment Sediment Soil STP Freshwater Intermittent Marine water Sediment	0.004 mg/l 0.32 mg/kg 0.032 mg/kg 0.028 mg/kg 7 mg/l 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg	Freshwater Marine water Sewage Treatment Plant Releases

Material name: CN046Series

ne: CN046Series sps uk

8.2. Exposure controls

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.

Form Not available.

Color Cyan

OdorNot available.Odor thresholdNot available.pH8.5 - 9.5Melting point/freezing pointNot available.Initial boiling point and boilingNot available.

range

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapor pressureNot available.Vapor densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity3.2 - 3.3 cPExplosive propertiesNot available.Oxidizing propertiesNot available.

9.2. Other information

**VOC** < 291 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

reactions

Will not occur.

10.4. Conditions to avoid Not available.

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

Material name: CN046Series SDS UK

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

dioxide and/or low molecular weight hydrocarbons.

## **SECTION 11: Toxicological information**

**General information** Not available.

Information on likely routes of exposure

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Inhalation

Contact with skin may result in mild irritation. Skin contact Eye contact Contact with eyes may result in mild irritation.

Ingestion Health injuries are not known or expected under normal use.

Not available Symptoms

11.1. Information on toxicological effects

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Acute** Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Serious eye damage/eye Non irritant in rabbit (OECD 404) Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405. Based on available data, the classification

irritation

criteria are not met.

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

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.

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**

This product is highly soluble in water. 12.1. Toxicity

**Test Results** Components **Species** 

2-pyrrolidone (CAS 616-45-5)

Aquatic

EC50 Crustacea

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

12.2. Persistence and

degradability

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> -0.85 2-pyrrolidone

Not available.

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

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

Not available.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

12.6. Other adverse effects

Material name: CN046Series

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 leasting, places visit bttp://www.bp.gom/recycle.

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

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 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

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

Not regulated.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

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.

Material name: CN046Series sps uk

#### Other information

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

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

15.2. Chemical safety assessment

Not available.

See attached SUMI or GEIS document, if applicable.

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

#### References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

The classification for health and environmental hazards is derived by a combination of calculation

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15 methods and test data, if available.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

None.

H412 Harmful to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

Follow training instructions when handling this material.

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.

Material name: CN046Series SDS UK

## **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)

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

Material name: CN046Series sps uk

# Safe Use of Mixture Information (SUMI)

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# 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.

## Conditions and measures 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.



# SAFETY DATA SHEET

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

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. Product identifier

glossary\_trade\_name CN047Series

Identification number Registration number -

Synonyms None.

Issue date 07-May-2015

Version number 06

Revision date 28-May-2019 Supersedes date 22-Dec-2018

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

Identified usesInkjet printingUses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

HP Inc. UK Limited
Cain Road, Amen Corner
Bracknell, Berkshire RG12 1HN

United Kingdom 44 (0) 879 013 0790

**Telephone** 44 (0) 87

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

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

0207771 5307

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-(2-hydroxyethyl)-2-pyrrolidone, 2-pyrrolidone, Aliphatic diol, Magenta pigment, Water

Hazard pictograms None.

Signal word None.

Hazard statements None

**Precautionary statements** 

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

Supplemental label information Contains 1,2-Benzisothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one. May produce an allergic

reaction.

Material name: CN047Series sps uk

12093 Version #: 06 Revision date: 28-May-2019 Issue date: 07-May-2015

#### 2.3. Other hazards

Complete toxicity data are not available for this specific formulation. 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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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

#### 3.1. Substances

**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	70-80	7732-18-5	-	-	
		231-791-2			
Classification: -					
1-(2-hydroxyethyl)-2-pyrrolidone	< 10	3445-11-2	01-2119977089-21-XXXX	-	
		222-359-4			
Classification: -					
2-pyrrolidone	<7.5	616-45-5	01-2119475471-37-XXXX	-	
		210-483-1			
Classification: Eye Irrit.	2;H319				
Aliphatic diol	< 5	Proprietary	01-2119449814-31-XXXX	-	
		-			
Classification: -					
Magenta pigment	< 5	Proprietary	-	-	
Classification:		-			
Crodafos 03a	<1	39464-69-2	-	-	
Classification: -		-			
nposition comments This	s ink supply c	ontains an aqueous ir	nk formulation.		

# SECTION 4: First aid measures

**General information** Wash affected areas thoroughly with mild soap and water.

4.1. Description of 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. Get medical attention if irritation

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

Not available.

4.3. Indication of any immediate medical attention and special treatment needed

Not available.

# **SECTION 5: Firefighting measures**

General fire hazards Not available.

5.1. Extinguishing media

xtinguisning media

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

Suitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture

Not available.

Material name: CN047Series sps uk

5.3. Advice for firefighters

Special protective equipment for firefighters Not available.

Special fire fighting

procedures

Not available.

Specific methods None established.

## **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

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

incompatibilities

Not available. 7.3. Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No exposure limits noted for ingredient(s). Occupational exposure limits

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

**Recommended monitoring** 

procedures

Not available.

## Derived no effect levels (DNELs)

Туре	Route	Value	Form
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
	Consumers	Consumers Dermal Dermal Inhalation Oral Oral Workers Dermal Dermal	Consumers  Dermal  Dermal  167 mg/kg bw/d  Inhalation  Oral  Oral  Oral  Workers  Dermal  277 mg/kg bw/d  Dermal  10 mg/kg bw/d  10 mg/kg bw/d

### Predicted no effect concentrations (PNECs)

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l	
		Intermittent	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

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

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

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Material name: CN047Series SDS UK

Not available. Respiratory protection Not available. Thermal hazards

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** 

Liquid. **Physical state Form** Not available. Color Magenta Odor Not available. Not available. Odor threshold 8.5 - 9.5 pН

Initial boiling point and boiling Not available.

Melting point/freezing point

range

Flash point

> 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

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

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

Not available.

Not available.

Not available. Vapor pressure Not available. Vapor density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. 3.2 - 3.3 cP **Viscosity** Not available. **Explosive properties Oxidizing properties** Not available.

9.2. Other information

VOC < 297 g/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

reactions

Will not occur.

10.4. Conditions to avoid Not available.

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

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.

Information on likely routes of exposure

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Inhalation

Skin contact Contact with skin may result in mild irritation. Contact with eyes may result in mild irritation. Eye contact

Ingestion Health injuries are not known or expected under normal use.

Material name: CN047Series

Not available. **Symptoms** 

11.1. Information on toxicological effects

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Acute** Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Serious eye damage/eye

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

irritation

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

Carcinogenicity Reproductive toxicity 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

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.

Mixture versus substance

information

Not available.

Complete toxicity data are not available for this specific formulation Other information

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

**SECTION 12: Ecological information** 

This product is highly soluble in water. 12.1. Toxicity

**Test Results** Components **Species** 

2-pyrrolidone (CAS 616-45-5)

Aquatic

EC50 Crustacea Water flea (Daphnia pulex) 13.21 mg/l, 48 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 Aliphatic diol -0.106

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

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

Not available. 12.6. Other adverse effects

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

Not available Residual waste Not available. Contaminated packaging Not available. **EU** waste code

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

Material name: CN047Series SDS UK

## **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

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

# Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

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 (EU) 2015/830.

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

Material name: CN047Series SDS UK

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

#### References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

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 H319 Causes serious eye irritation.

Sections 2 to 15
Revision information

1. Product and Company Identification: Alternate Trade Names

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

Training information
Disclaimer

Follow training instructions when handling this material.

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.

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.

#### **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

Material name: CN047Series sps uk

# Safe Use of Mixture Information (SUMI)

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# 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.

## Conditions and measures 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.



# SAFETY DATA SHEET

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

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. Product identifier

glossary\_trade\_name CN048Series

Identification number - Registration number -

Synonyms None.

Issue date 07-May-2015

Version number 07

Revision date 21-Jun-2019 Supersedes date 29-Sep-2018

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

Identified usesInkjet printingUses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

HP Inc. UK Limited
Cain Road, Amen Corner
Bracknell, Berkshire RG12 1HN

United Kingdom 44 (0) 879 013 0790

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048

**HP Inc. Customer Care** 

Line

**Telephone** 

(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551

**Email:** hpcustomer.inquiries@hp.com

1.4 Emergency telephone

number

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

0207771 5307

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-(2-hydroxyethyl)-2-pyrrolidone, 1,2-Benzisothiazolin-3-one,

2,4,7,9-Tetramethyl-5-decyne-4,7-diol, 2-methyl-2h-isothiazol-3-one, 2-pyrrolidone, Aliphatic diol,

Water, Yellow pigment

Hazard pictograms None.

Signal word None.

Hazard statements None

**Precautionary statements** 

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

Material name: CN048Series SDS UK

12094 Version #: 07 Revision date: 21-Jun-2019 Issue date: 07-May-2015

Supplemental label information

Contains 1,2-Benzisothiazolin-3-one, 2-Methyl-2H-isothiazol-3-one, and 2,4,7,9-tetramethyl-5-decyn-4,7-diol. May produce an allergic reaction.

2.3. Other hazards

Complete toxicity data are not available for this specific formulation. 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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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

#### 3.1. Substances

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water		70-80	7732-18-5 231-791-2	-	-	
Classification:	-					
1-(2-hydroxyethyl)-2-pyrr	olidone	< 10	3445-11-2 222-359-4	01-2119977089-21-XXXX	-	
Classification:	-					
2-pyrrolidone		< 7.5	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H3	19				
Aliphatic diol		< 5	Proprietary -	01-2119449814-31-XXXX	-	
Classification:	-					
Yellow pigment		< 5	Proprietary -	-	-	
Classification:	-					
2,4,7,9-Tetramethyl-5-de	cyne-4,7-diol	<1	126-86-3 204-809-1	01-2119954390-39-XXXX	-	
Classification:	Skin Sens. 1;	H317, E	ye Dam. 1;H318, Aqua	atic Chronic 3;H412		
Crodafos 03a		<1	39464-69-2	-	-	
Classification:	-					
1,2-Benzisothiazolin-3-or	ne	<0.1	2634-33-5 220-120-9	-	613-088-00-6	
Classification:	Acute Tox. 4; Acute 1;H400		kin Irrit. 2;H315, Skin	Sens. 1;H317, Eye Dam. 1;H3	18, Aquatic	
2-methyl-2h-isothiazol-3-	one	<0.1	2682-20-4 220-239-6	-	-	
Classification:			cute Tox. 3;H311, Skii quatic Chronic 1;H410	n Corr. 1B;H314, Skin Sens. 1 )	A;H317,	
nposition comments	This ink	supply o	ontains an aqueous in	nk formulation.		

# **SECTION 4: First aid measures**

**Composition comments** 

**General information** Wash affected areas thoroughly with mild soap and water.

4.1. Description of 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. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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.

Material name: CN048Series SDS UK

12094 Version #: 07 Revision date: 21-Jun-2019 Issue date: 07-May-2015

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.

Not available.

## **SECTION 5: Firefighting measures**

General fire hazards

5.1. Extinguishing media Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

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

Special fire fighting

procedures

Not available.

Not available.

Specific methods

None established.

## **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.

Not available. 7.3. Specific end use(s)

# **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 levels (DNELs)

Components	Туре	Route	Value	Form
2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS 126-86-3)	Consumers	Inhalation	1.29 mg/m3	Systemic short term
		Inhalation	0.43 mg/m3	Systemic long term
	Workers	Inhalation	5.28 mg/m3	Systemic short term
		Inhalation	1.76 mg/m3	Systemic long term
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

Material name: CN048Series SDS UK

			Inhalation	57.8 mg/m3	Systemic long term
redicted no effect concentration	ns (PNECs)				
Components		Туре	Route	Value	Form
2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS 126-86-3)		Not applicable	Freshwater	0.04 mg/l	
			Intermittent	0.4 mg/l	Releases
			Marine water	0.004 mg/l	
			Sediment	0.32 mg/kg	Freshwater
			Sediment	0.032 mg/kg	Marine water
			Soil	0.028 mg/kg	
			STP	7 mg/l	Sewage Treatment Plan
2-pyrrolidone (CAS 616-45-5)		Not applicable	Freshwater	0.5 mg/l	
			Intermittent	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 Plan
xposure guidelines	Exposure limits have not been established for this product.				
2. Exposure controls					
ppropriate engineering ontrols	Use in a well ventilated area.				
dividual protection measures,	such as perso	onal protective equ	ipment		
General information	Use personal protective equipment to minimize exposure to skin and eye.				
Eye/face protection	Not available.				
Skin protection					

Handle in accordance with good industrial hygiene and safety practice.

Route

**Type** 

Value

**Form** 

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

## 9.1. Information on basic physical and chemical properties

#### **Appearance**

controls

- Hand protection

Thermal hazards

**Environmental exposure** 

**Respiratory protection** 

- Other

Hygiene measures

Components

**Physical state** Liquid. **Form** Not available. Color Yellow Odor Not available. Not available. **Odor threshold** 8.5 - 9.5 pН Not available. Melting point/freezing point Initial boiling point and boiling Not available. range

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

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

Flammability limit - lower

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

( /0)

Flammability limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.

Material name: CN048Series sps uk

Solubility(ies)

Not available. Solubility (water) Not available. **Partition coefficient** (n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. 3.2 - 3.3 cP **Viscosity** Not available. **Explosive properties** Not available. Oxidizing properties

9.2. Other information

VOC < 297 g/L

## **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.

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

decomposition products dioxide and/or low molecular weight hydrocarbons.

# **SECTION 11: Toxicological information**

**General information** Not available.

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Contact with skin may result in mild irritation. Eye contact Contact with eyes may result in mild irritation.

Ingestion Health injuries are not known or expected under normal use.

Not available. **Symptoms** 

### 11.1. 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 Serious eye damage/eye

irritation

Non irritant in rabbit (OECD 404) Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405. Based on available data, the classification

criteria are not met.

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. Based on available data, the classification criteria are not met. Carcinogenicity Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity -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.

repeated exposure

Aspiration hazard

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

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.

Material name: CN048Series SDS LIK **SECTION 12: Ecological information** 

**12.1. Toxicity** This product is highly soluble in water.

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

12.2. Persistence and

degradability

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85 Aliphatic diol -0.106

Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

**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

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Material name: CN048Series sps uk

Regulation (EU) No. 649/2012 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 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at

work

Not regulated.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

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 (EU) 2015/830.

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

15.2. Chemical safety

assessment

Not available.

See attached SUMI or GEIS document, if applicable.

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

References Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation,

Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals

Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of

substances and mixtures, and amendments (CLP).

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

H301 Toxic if swallowed. H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Revision information None

**Training information** Follow training instructions when handling this material.

Material name: CN048Series sps uk

#### 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**

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

Material name: CN048Series SDS UK

# Safe Use of Mixture Information (SUMI)

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# 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.

Up to 8 hours per day
< 240 days per year
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.

## Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation

Wear safety glasses with side shields (or goggles), if splashing is possible.

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.