

# SAFETY DATA SHEET

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

Important information C4960Series

1.1. Product identifier

Trade name or designation

of the mixture

C4960Series

Registration number

Synonyms None.

Issue date 21-Jun-2013

issue date 21-5dil-20

Version number 07

Revision date 19-Feb-2019 Supersedes date 02-Jun-2016

#### 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 pictograms None.
Signal word None.

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

**Precautionary statements** 

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

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

Material name: C4960Series SDS UK

#### 2.3. Other hazards

Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation. 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	80-95	7732-18-5	-	-	
		231-791-2			
Classification:	-				
2-pyrrolidone	<5	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:	-				

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

**Composition comments** 

**General information** Not available.

4.1. Description of first aid measures

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

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

This ink supply contains an aqueous ink formulation.

develops or persists.

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

least 15 minutes or until particles are removed. If irritation persists get medical attention.

**Ingestion** If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both acute and

delayed

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

Suitable extinguishing

Dry chemical, CO2, water spray or regular foam.

media

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

Not available.

Special fire fighting

procedures

Not available.

Specific methods None established.

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

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders Not available.

6.2. Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

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

6.4. Reference to other

sections

Not available.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

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

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 controls

Use in a well ventilated area. Provide adequate ventilation.

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Individual protection measures, such as personal protective equipment

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

Not required under intended use. Eve/face protection

Skin protection

Not available. - Hand protection

Protected gloves not required under intended use. - Other

For use other than intended use (such as in the event of a large spill), goggles and respirators may Respiratory protection

be required.

Not available. Thermal hazards

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

**Environmental exposure** 

controls

Not available.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

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

Not available. Odor Not available. **Odor threshold** 7.8 - 8.4Melting point/freezing point Not available. Initial boiling point and boiling Not determined

range

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

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

Flammability limit - lower

Not determined

(%)

Flammability limit - upper

Not available.

(%)

Not determined Vapor pressure Not available. Vapor density

Solubility(ies)

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

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** >= 2 cp **Viscosity** 

Not available. **Explosive properties** Not determined Oxidizing properties

9.2. Other information

VOC < 40 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

Will not occur.

Not available. 10.4. Conditions to avoid

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

Material name: C4960Series SDS LIK **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.

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.

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.

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

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.

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

**Product Species Test Results** 

C4960Series

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

Components **Test Results** Species

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea FC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

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12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative potential

Not available.

Partition coefficient n-octanol/water (log Kow)

> -0.85 2-pyrrolidone

**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

Not available. 12.6. Other adverse effects

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

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

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**

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

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

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

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

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

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.

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#### 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

ations 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 not written out in full under

H319 Causes serious eye irritation.

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.

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## **Explanation of abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

COC Cleveland Open Cup

**DOT** Department of Transportation

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

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: C4960Series sps uk

# Safe Use of Mixture Information (SUMI)

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

#### Disclaimer

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

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

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

# related to Personal Protection Equipment, hygiene and health evaluation

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

Wear appropriate chemical resistent clothing.

In case of inadequate ventilation wear respiratory protection.

Eye wash fountain and emergency showers are recommended.

Avoid breathing mist/vapours.

Avoid contact with skin, eyes and clothing.

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









#### Good practice advice

Use personal protective equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

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

Wash contaminated clothing before reuse.

Store at room temperature.





#### **Environmental measures**

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

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

Ensure collection and disposal with appropriately licenced waste contractor.

### Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

PC18-Inks and Toners

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

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

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

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

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

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

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

#### Additional information on product composition

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

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

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

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

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

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

Section 2 of the SDS states these ingredients where applicable.