

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	C4909 Series
Identification number	-
Registration number	-
Synonyms	None.
Issue date	29-Sep-2018
Version number	07
Revision date	16-Apr-2021
Supersedes date	20-Jan-2021
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Inkjet printing
Uses advised against	None known.
1.3. Details of the supplier of	the safety data sheet
	HP Inc UK Ltd, Regulatory Enquiries, Earley West
	300 Thames Valley Park Drive, Reading, RG6 1PT
Telephone	+44 20 7660 0596 (Consumer)
	+44 20 7660 0403 (Commercial)
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 as hazardous according to Regulation (EC) 1272/2008.

2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

2.2. Label elements

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

Hazard pictograms	None.
Signal word	None.
Hazard statements	The substance does not meet the criteria for classification.
Precautionary statements	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.

 Supplemental label information
 Contains Benzisothiazolinone and ethoxylated 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		65-80	7732-18-5 231-791-2	-	-	
Classification:	-					
2-pyrrolidone		<3	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H3	19, Repr	1B;H360			
Ethoxylated-2,4,7,9-tetra yn-4,7-diol	amethyl-5-dec	<1	9014-85-1 500-022-5	-	-	
Classification:	Skin Sens. 1;ł	H317, Ey	e Dam. 1;H318, Aqua	atic Chronic 3;H412		
1,2-Benzisothiazolin-3-o	ne	<0.05	2634-33-5 220-120-9	01-2120761540-60-XXXX	613-088-00-6	
Classification:	Acute Tox. 4;I Acute 1;H400		in Irrit. 2;H315, Skin S	Sens. 1;H317, Eye Dam. 1;H3	318, Aquatic	
Composition comments	This ink	supply co	ontains an aqueous ir	k formulation.		
	related to	o develop	mental toxicity in ani	imit 3%. Mixture classification mals. No adverse effects on al study. See Section 11.		

SECTION 4: First aid measures

General information	Wash affected areas thoroughly with mild soap and water.
4.1. Description of first aid meas	sures
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	
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	Not available.
Special fire fighting procedures	Not available.

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SECTION 6:	Accidental	release	measures
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6.1. Personal precautions, protection	ctive 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			

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid contact with skin, eyes and clothing.
7.2. Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.

Derived no effect levels (DNELs)

Components	Туре	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Consumers	Dermal	0.67 mg/kg bw/d	Systemic long term
		Inhalation	1.985 mg/m3	Systemic long term
		Oral	0.67 mg/kg bw/d	Systemic long term
	Workers	Dermal	4.2 mg/kg bw/d	Systemic long term
		Inhalation	29.62 mg/m3	Systemic long term
Predicted no effect concentratio	ns (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 guidelines	Exposure limits have not been	established for this	product.	
8.2. Exposure controls				
Appropriate engineering controls	Use in a well ventilated area.			
Individual protection measures,	such as personal protective eq	uipment		
General information	Use personal protective equipm	ent to minimize exp	posure to skin and e	ye.
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	d 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	Yellow
Odor	Not available.
Odor threshold	Not available.
рН	8.5 - 9.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
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 expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	3.2 - 3.3 cP
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
VOC	< 297 g/L

SECTION 10: Stability and reactivity

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Not available.
Stable under recommended storage conditions.
Will not occur.
Not available.
Incompatible with strong bases and oxidizing agents.
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		
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.	
Symptoms	Not available.	
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)			
<u>Acute</u>			
Oral			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Non irritant in rabbit (OE	CD 404) Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	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.	
Carcinogenicity	Based on available data	the classification criteria are not met.	
Reproductive toxicity	Based on available data	, the classification criteria are not met.	
	pregnant test animals (C Uptake by people of sma has not caused adverse	ponent showed developmental effects only at high doses that were toxic to DECD Testing Guideline 414: Prenatal Developmental Toxicity Study). All doses is not expected to cause developmental toxicity. This component effects on sexual function or damage to fertility in an animal study (OECD Extended One-Generation Reproductive Toxicity Study).	
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	1 2	re not available for this specific formulation tential health effects and Section 4 for first aid measures.	

SECTION 12: Ecological information

12.1. Toxicity	This product is highly soluble in water.		water.	
Components		Species		Test Results
2-pyrrolidone (CAS 616-45-5)				
Aquatic				
Crustacea	EC50	Water flea (Dap	hnia 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	
Bioconcentration factor (BCF) Ethoxylated-2,4,7,9-tetramethyl-5-decyn-4,7-diol		iol	21.09 - 111.7, L	/kg wet-wt (EpiSuite v4.11, BCFBAF v3.01)
12.4. Mobility in soil	Not available.			
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.			
12.6. Other adverse effects	Not available.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods		
Residual waste	Not available.	
Contaminated packaging	Not available.	
EU waste code	Not available.	
Disposal methods/information	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.	
	HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.	

SECTION 14: Transport information

SECTION 14. Transport in	Iomaton
DOT	
UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
Special precautions for user	
IATA	
UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	•
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No
Special precautions for user	Not available.
IMDG	
UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Transport hazard class(es)	
Marine pollutant	No
EmS	Not available.
Special precautions for user	Not available.
ADR	
UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
Packing group	Not available.
Environmental hazards	No
Special precautions for user	
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

SECTION 15: Regulatory information

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

EU regulations

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Regulation (EC) No. 1005 Not listed.	5/2009 on substances that deplete the ozone layer, Annex I and II, as amended
	2004 On persistent organic pollutants, Annex I as amended
Not listed.	······································
	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/ Not listed.	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, as amended

Not listed.

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Regulation (EC) No. 1907/20	006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.	
Authorizations	
Regulation (EC) No. 1907/2 Not listed.	006, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Regulation (EC) No. 1907/2	006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed. Directive 2004/37/EC: on th work, as amended	e protection of workers from the risks related to exposure to carcinogens and mutagens at
Not listed.	
Other EU regulations	
Directive 2012/18/EU on ma Not listed.	ajor accident hazards involving dangerous substances, as amended
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 (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 infor	mation
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	 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360 May damage fertility or the unborn child. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Revision information	None.
Training information	Follow training instructions when handling this material.

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

American Conference of Governmental Industrial Hygienists
Chemical Abstracts Service
Comprehensive Environmental Response Compensation and Liability Act
Code of Federal Regulations
Cleveland Open Cup
Department of Transportation
Emergency Planning and Community Right-to-Know Act (aka SARA)
International Agency for Research on Cancer
National Institute for Occupational Safety and Health
National Toxicology Program
Occupational Safety and Health Administration
Permissible Exposure Limit
Resource Conservation and Recovery Act
Recommended
Recommended Exposure Limit
Superfund Amendments and Reauthorization Act of 1986
Short-Term Exposure Limit
Toxicity Characteristics Leaching Procedure
Threshold Limit Value
Toxic Substances Control Act
Volatile Organic Compounds

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.

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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	
	Wear appropriate chemical resistent gloves: see section 8 of the SDS.
Equipment, hygiene and	Wear appropriate chemical resistent clothing.
health evaluation	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 equipme	ent as required.
Wash hands before breaks and a	after work.
Keep good industrial hygiene and	d safety practice.
Use only with adequate ventilati	
Do no eat, drink or smoke when	
Wash contaminated clothing be	
Store at room temperature.	
Environmental measures	
	is into source/unitor supplies
Do not allow this material to dra	
-	ding to Local, State, Federal and Provincial Environmental Regulations.
	ith appropriately licenced waste contractor.
Use descriptors	
IS-Use at industrial sites	
PW-Widespread use by profession	onal workers
SU7-Printing and reproduction n	nedia
PC18-Inks and Toners	
PROC1-Chemical production or r	refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2-Chemical production or r	refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
condition PROC8a-Transfer of substance o	ation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment or mixture (charging and discharging) at non-dedicated facilities or mixture (charging and discharging) at dedicated facilities
ERC5-Use at industrial site leading	
	to inclusion into/onto article (indoor)
Additional information on prod	
	s on the label, the classification of the mixture is provided.
Most of the water based inks are	
	is based on the individuel ingredients and their concentration within the mixture.
	ne classification are stated in Section 3 of the SDS.
Relevant limit values of ingredier	nts on which the exposure assessment is based, are listed in section 8 of the SDS.
The product may contain sensitiz	zing ingredients that may cause allergic reaction to certain people.
Section 2 of the SDS states these	ingredients where applicable.
	WB01 English.pdf