

# **SAFETY DATA SHEET**

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

1.1. Product identifier	
Trade name or designation of the mixture	C4871Series
Registration number	N/A
Synonyms	None.
Issue date	28-Jun-2013
Version number	01
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Inkjet printing
Uses advised against	None known.
Company identification	Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Emergency overview	Contact with skin and eyes may result in irritation. Contact with skin and eyes may result in irritation.
Hazard summary	
Physical hazards	Not classified for physical hazards.
Health hazards	Not classified as a health hazard.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
Specific hazards	Not available.
Main symptoms	Not available.

### 2.2. Label elements

### Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains:	2-pyrrolidone, Carbon black, Water
R-phrase(s)	Not available.
S-phrase(s)	Not available.
Authorization number	Not available.
Supplemental label information	Not applicable.
2.3. Other hazards	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. This black ink is not classified according to EU Directive 1999/45/EC. 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	7732-18-5 231-791-2	-	-
Classification:	DSD:	-			
	CLP:	-			
2-pyrrolidone		<10	616-45-5 210-483-1	-	-
Classification:	DSD:	Xi;R36			
	CLP:	Eye Irrit. 2;H31	9		
Carbon black		<5	1333-86-4 215-609-9	-	-
Classification:	DSD:	-			
	CLP:	-			
Composition comments	Т 1 F	This product has 999/45/EC, as an For the full text of	mended. f the R phrases ment	k formulation. criteria specified in the EU I ioned in this Section, see Se d form in this preparation.	
SECTION 4: First aid mea	asure	S			
General information	Ν	lot available.			
4.1. Description of first aid	meas	ures			
Inhalation				get medical attention.	
Skin contact		Vash affected are attention.	eas thoroughly with m	nild soap and water. If irritat	ion persists get medical
Eye contact				h large amounts of clean, w emoved. If irritation persists	arm water (low pressure) for at get medical attention.
Ingestion	I	f ingestion of a la	arge amount does occ	cur, seek medical attention.	
4.2. Most important symptoms and effects, both acute and delayed	-	lot available.			
4.3. Indication of any immediate medical attentio and special treatment needed		lo notes to physi	cians.		
SECTION 5: Firefighting r	meas	ures			
General fire hazards	Ν	lot available.			
5.1. Extinguishing media Suitable extinguishing media	C	CO2, water, dry c	hemical, or foam		
Unsuitable extinguishin media	ng M	lone known.			
5.2. Special hazards arising from the substance or mixture	I N	lot available.			
5.3. Advice for firefighters Special protective equipment for firefighters	Ν	lot available.			
Special fire fighting procedures	Ν	lot available.			

For non-emergency	tective equipment and emergen Wear appropriate personal protect			
personnel For emergency	Not available.			
responders 6.2. Environmental	Do not let product enter drains. D	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.		
precautions 6.3. Methods and material for	Bille and opilied material, milere a	is is possible. Absorb with inert absorbent such as dry clay, sand		
containment and cleaning up		al sorbents, or recover using pumps.		
6.4. Reference to other sections	Not avallable.	Not available.		
SECTION 7: Handling and s	torage			
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 contr	ols/personal protection			
8.1. Control parameters				
Occupational exposure limits				
UK. EH40 Workplace Expo Components	osure Limits (WELs) Type	Value		
Carbon black (CAS	STEL	7 mg/m3		
1333-86-4)	TWA	3.5 mg/m3		
Biological limit values	No biological exposure limits noted	-		
Recommended monitoring procedures	Not available.			
Derived no-effect level (DNEL)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
8.2. Exposure controls				
Appropriate engineering controls	Use in a well ventilated area. Provide adequate ventilation.			
Individual protection measure	es, such as personal protective e	quipment		
General information	Use personal protective equipmen	t to minimize exposure to skin and eye.		
Eye/face protection	Not available.			
Skin protection				
- Hand protection	Not available.			
- Other	Protected gloves not required und	er intended use.		
<b>Respiratory protection</b>	Not available.			
	Not available.			
Thermal hazards	Handle in accordance with good industrial hygiene and safety practice.			

Appearance	
Physical state	Liquid.
Form	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.

рН	7.8 - 8.8	
Melting point/freezing point		
Initial boiling point and	Not determined	
boiling range		
Flash point	Not applicable.	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or Flammability limit - lowe (%)	-	
Flammability limit - upper (%)	Not available.	
Vapor pressure	Not determined	
Relative density	Not available.	
Solubility(ies)	Soluble in water	
Partition coefficient (n-octanol/water)	Not available.	
Decomposition temperature	Not available.	
Viscosity	>= 2 cp	
Explosive properties	Not available.	
Oxidizing properties	Not determined	
9.2. Other information	No relevant additional information av	ailable.
SECTION 10: Stability and		
10.1. Reactivity	Not available.	
10.2. Chemical stability	Stable under recommended storage of	conditions.
10.3. Possibility of hazardous reactions		
10.4. Conditions to avoid	Not available.	
10.5. Incompatible materials		
10.6. Hazardous decomposition products	Upon decomposition, this product ma dioxide and/or low molecular weight	ay yield gaseous nitrogen oxides, carbon monoxide, carbon hydrocarbons.
SECTION 11: Toxicological	information	
General information	Not available.	
Information on likely routes	-	
Ingestion	Not available.	
Inhalation	Not available.	
Skin contact	Not available.	
Eye contact	Not available.	
Symptoms	Not available.	
11.1. Information on toxicol	ogical effects	
Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5) Acute		
Oral	Cuince ni-	
LD50	Guinea pig	6500 mg/kg
Carbon black (CAS 1333-86-4)	Rat	6500 mg/kg
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation Serious eye damage/eye irritation	Not available. Not available.	
Material name: C4871Series		SDS LIK

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Respiratory sensitization	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
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.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Carbon black (CAS 1333-	36-4) 2B Po	ssibly carcinogenic to humans.	
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
Mixture versus substance information	Not available.		
Other information	This ink formulation has not been test Refer to Section 2 for potential health	ed for toxicological effects. effects and Section 4 for first aid measures.	
SECTION 12: Ecological info	rmation		
Aquatic toxicity	LC50/96h/Fathead minnows => 750	ng/L	
12.1. Toxicity			
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	Not available.		
12.3. Bioaccumulative potential	Not available.		
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 and vPvB assessment	Not a PBT or v	/PvB substance or mixture.	
12.6. Other adverse effects	Not available.		

### SECTION 13: Disposal considerations

13.1. Waste treatment meth	ods
Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.
Disposal methods/information	Dispose of in compliance with federal, state, and local 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

### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

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Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU** regulations Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I Not listed. Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed. Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed. Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed. Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed. **Authorizations** Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization Not listed. **Restrictions on use** Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed. Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work Not regulated. Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding Not regulated. **Other EU regulations** Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not regulated. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not regulated. Directive 94/33/EC on the protection of young people at work Not regulated. Other regulations All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China. National regulations Not available. 15.2. Chemical Safety Not available. Assessment

### SECTION 16: Other information

References	Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R36 Irritating to eyes.
	H319 Causes serious eye irritation.
Revision information	None.
Training information	Not available.
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc Company. Data is the most current known to Hewlett-Packard Company 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.
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### **Explanation of abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds