C4890Series[B][2]-SDS_US-English-18.pdf

C4890Series[CL][2]-SDS_US-English-08.pdf



SAFETY DATA SHEET

1. Identification	
Product identifier	Not available.
Other means of identification	Not available.
Recommended use	Inkjet printing
Recommended restrictions	None known.
Issue date	07-Aug-2014
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-5020
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Label elements	
Hazard symbol	No symbol.
Signal word	Not available.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Not classified.
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 preser 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.

3. Composition/information on ingredients

ixtures		
Hazardous components		
Chemical name	CAS number	%
2-pyrrolidone	616-45-5	<10
Non-hazardous components		
Chemical name	CAS number	%
Water	7732-18-5	<80
Carbon black	1333-86-4	<5

Composition comments	This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazarc Communication Standard).		
	Carbon black is present only in a bound form in th	is preparation.	
4. First-aid measures			
Inhalation	Move to fresh air. If symptoms persist, get medica	al attention.	
Skin contact	Wash affected areas thoroughly with mild soap an attention.	d water. If irritat	ion persists get medical
Eye contact	Do not rub eyes. Immediately flush with large ameleast 15 minutes or until particles are removed. If		
Ingestion	If ingestion of a large amount does occur, seek m	edical attention.	
Most important symptoms/effects, acute and delayed	Not available.		
5. Fire-fighting measures			
Flash point	> 199.40 °F (> 93.00 °C)		
Suitable extinguishing media	CO2, water, dry chemical, or foam		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
Specific methods	None established.		
6. Accidental release measu	res		
Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.		
Methods and materials 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.		
Environmental precautions	Do not let product enter drains. Do not flush into	surface water or	sanitary sewer system.
7. Handling and storage			
Precautions for safe handling	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from	n excessive heat o	or cold.
8. Exposure controls/person	al protection		
Occupational exposure limits			
	for Air Contaminants (29 CFR 1910.1000)		
Components	Туре	Value	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
US. ACGIH Threshold Limit Components	: Values Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide Components	o Chemical Hazards Type	Value	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Biological limit values	No biological exposure limits noted for the ingredi	ent(s).	
Appropriate engineering controls	Use in a well ventilated area. Provide adequate ventilation.		

Individual protection measures, such as personal protective equipment

Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Protected gloves not required under intended use.
Respiratory protection	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9. Physical and chemical pro	operties
Appearance	Not available.
Physical state	Liquid.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	7.8 - 8.8
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 199.40 °F (> 93.00 °C)
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	-
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	>= 2 cp
Other information	For other VOC regulatory data/information see Section 15.
Oxidizing properties	Not determined
VOC (Weight %)	< 83 g/l
10. Stability and reactivity	
Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
11 Tovicological information	

11. Toxicological information

Symptoms related to the Not available. physical, chemical and toxicological characteristics

Information on toxicological	effects		
Acute toxicity		lable data, the classification criteria are i	not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation		lable data, the classification criteria are i	
Respiratory sensitization	Based on avai	lable data, the classification criteria are i	not met.
Skin sensitization	Based on avai	lable data, the classification criteria are ı	not met.
Germ cell mutagenicity	Based on avai	lable data, the classification criteria are i	not met.
Carcinogenicity	Based on avai	lable data, the classification criteria are ı	not met.
	2B) and by the organizations bound within a	e State of California under Proposition 6 indicate that exposure to carbon black, r	(possibly carcinogenic to humans, Group 5. In their evaluations of carbon black, both per se, does not occur when it remains c, or paint. Carbon black is present only in a
IARC Monographs. Overa		Carcinogenicity	
Carbon black (CAS 1333	-86-4)	2B Possibly carcinoger	ic to humans.
Reproductive toxicity		lable data, the classification criteria are i	
Specific target organ toxicity - single exposure	Based on avai	lable data, the classification criteria are i	not met.
Specific target organ toxicity - repeated exposure	Based on avai	lable data, the classification criteria are i	not met.
Aspiration hazard	Based on avai	lable data, the classification criteria are i	not met.
Further information		city data are not available for this specifi on 2 for potential health effects and Sect	
Components	Species		Test Results
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig		6500 mg/kg
	Rat		6500 mg/kg
Carbon black (CAS 1333-86-4)			
Acute			
Oral			
LD50	Rat		> 8000 mg/kg
12. Ecological information			
Ecotoxicity			
Product		Species	Test Results
C4890Series[B][2] (CAS Mixt	ure)		
Aquatic			
<i>Acute</i> Fish	LC50	Fathead minnow (Pimephales promelas	$c \rightarrow 750 mg/l_06 hours$
Components	LCJU	Species	Test Results
2-pyrrolidone (CAS 616-45-5)	<u></u>	Species	
)		
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Persistence and degradability			5.7
Bioaccumulative potential	Not available.		
Partition coefficient n-oct		og Kow)	
2-pyrrolidone		-0.85	
Mobility in soil			
Other adverse effects	Not available. Not available.		

13. Disposal considerations	
Disposal instructions	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.
Local disposal regulations	Not available.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
14. Transport information	
DOT Not regulated as a hazardous IATA	material by DOT.
Not regulated as a dangerous IMDG	good.
Not regulated as a dangerous	good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
15. Regulatory information	
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated. US. OSHA Specifically Regu Not on regulatory list. CERCLA Hazardous Substa Not listed.	ulated Substances (29 CFR 1910.1001-1050) nce List (40 CFR 302.4)
Superfund Amendments and R	eauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
Other federal regulations	
Not regulated.	n 112 Hazardous Air Pollutants (HAPs) List n 112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
Drug Enforcement Adminis Chemical Code Number	tration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
-	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated. DEA Exempt Chemical Mixi Not regulated.	tures Code Number
Food and Drug Administration (FDA)	Not regulated.

US state regulations US. Massachusetts RTK - S 2-pyrrolidone (CAS 616-4 Carbon black (CAS 1333- US. New Jersey Worker an Not regulated. US. Pennsylvania RTK - Ha 2-pyrrolidone (CAS 616-4 Carbon black (CAS 1333- US. Rhode Island RTK Carbon black (CAS 1333- US. California Proposition	45-5) -86-4) nd Community Right-to-Know Act azardous Substances 45-5) -86-4) -86-4)
US - California Propos	sition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Carbon black (CAS 1	.333-86-4)
Other information	VOC content (less water, less exempt compounds) = <448 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
Regulatory information	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.
16. Other information, inclu	Iding date of preparation or last revision
Issue date	07-Aug-2014
Version #	01
Further 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.
Revision Information	 Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties Ecological Information: Ecotoxicity
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

Explanation of abbreviations

ACGIH	American Conference of Covernmental Industrial Hygiopists
	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



SAFETY DATA SHEET

	move to trespair to symptoms persist, der medical attention
4. First-aid measures Inhalation	Move to fresh air. If symptoms persist, get medical attention.
	Communication Standard).
Composition comments	This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazarc
Polyethylene glycol	25322-68-3 <100
Non-hazardous components Chemical name	s CAS number %
lixtures	
B. Composition/information	on ingreaients
Composition /information	
	skin irritation and dermatitis (rash). Vapors irritating to eyes and respiratory tract. Inhalation mists/vapors of this product may cause dizziness, nausea, and respiratory tract congestion.
	0.1% are listed by EU, MAK, IARC, NTP or OSHA. Prolonged or repeated contact can result in defatting and drying of the skin which may result
	None of the components present in this formulation at concentrations equal to or greater that
classified (HNOC) Other hazards	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalatic
Hazard(s) not otherwise	Not classified.
Disposal	Not available.
Storage	Not available.
Response	Not available.
Prevention	Not available.
Precautionary statement	
Hazard statement	Not available.
, Signal word	Not available.
Hazard symbol	No symbol.
Label elements	
OSHA hazard(s)	Not classified.
- Health hazards	Not classified.
Physical hazards	Not classified.
2. Hazard(s) identification	
	Email: hpcustomer.inquiries@hp.com
	(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551
	HP Customer Care Line
	(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048
	Hewlett-Packard health effects line
	Telephone 650-857-5020
	United States
	3000 Hanover Street Palo Alto, CA 94304-1185
Company identification	Hewlett-Packard Company
Issue date	06-Aug-2014
Recommended restrictions	None known.
Recommended use	Inkjet printing
Other means of identification	Not available.
Product identifier	Not available.

Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
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.		
Most important symptoms/effects, acute and delayed	Not available.		
5. Fire-fighting measures			
Flash point	> 424.40 °F (> 218.00 °C)		
Suitable extinguishing media	CO2, water, dry chemical, or foam.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
Specific methods	Do not direct a solid stream of water or foar and increase fire intensity.	n into hot, burning pool	s; this may result in frothing
6. Accidental release measu	res		
Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipr	nent.	
Methods and materials 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.		
Environmental precautions	Do not let product enter drains. Do not flush	n into surface water or s	anitary sewer system.
7. Handling and storage			
Precautions for safe handling	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.		
8. Exposure controls/persor	al protection		
Occupational exposure limits			
	onmental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Polyethylene glycol (CAS 25322-68-3)	TWA	10 mg/m3	Particulate.
Biological limit values	No biological exposure limits noted for the ir	ngredient(s).	
Appropriate engineering controls	Use in a well ventilated area.		
Individual protection measure Eye/face protection	s, such as personal protective equipment Not available.	t	
Skin protection			
Hand protection	Not available.		
Other	Not available.		
Respiratory protection	Not available.		
Thermal hazards	Not available.		
General hygiene considerations	Handle in accordance with good industrial h	ygiene and safety pract	
9. Physical and chemical pro	pperties		
Appearance	Not available.		
Physical state			
	Not available.		
Color	Not available. Not available. Not available.		

Odor BrussholdNot availablepHNot ApplicablepHNot availableThitla boiling point and> 382 °F (> 200 °C)Flash point> 424.40 °F (> 218.00 °C)Evaporation rateNot dependencePammability (solid, gas)Not dependenceFlasmmability limit - lowerNot dependence(%)Not dependenceFlasmmability limit - lowerNot dependence(%)Not available.(%)Not available.(%)<		
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Reproductive toxicity Based on available data, the classification criteria are not met.	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. - 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	e not met.
Aspiration hazard	Based on available data, the classification criteria are not met.	
Further information	Complete toxicity data are not available for this specific formulation	
	Refer to Section 2 for potential health effects and Se	ection 4 for first aid measures.
12. Ecological information		
Aquatic toxicity	LC50/48h/daphnia =>10000 mg/L	
Ecotoxicity		
Components	Species	Test Results
Polyethylene glycol (CAS 2532	2-68-3)	
Aquatic Fish	LC50 Atlantic salmon (Salmo salar)	> 1000 mg/l, 96 hours
	х ,	> 1000 mg/1, 90 nours
Persistence and degradability Bioaccumulative potential	Not available.	
Mobility in soil	Not available. Not available.	
Other adverse effects	Not available.	
13. Disposal considerations		
Disposal instructions	Do not allow this material to drain into sewers/water Dispose of waste material according to Local, State,	
	Regulations.	
Local disposal regulations	Not available.	
Hazardous waste code	Not regulated.	
Waste from residues / unused products	Not available.	
Contaminated packaging	Not available.	
14. Transport information		
DOT		
Not regulated as a hazardous	material by DOT.	
IATA Not regulated as a dangerous	aood	
IMDG	good.	
Not regulated as a dangerous good.		
Transport in bulk according to Annex II of MARPOL	No information available.	
73/78 and the IBC Code		
Further information	Not a dangerous good under DOT, IATA, ADR, IMDO	G, or RID.
15. Regulatory information		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.	
	Notification (40 CFR 707, Subpt. D)	
Not regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not on regulatory list. CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
-	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No	
	Fire Hazard - No	
	Pressure Hazard - No	
CADA 202 Evenenalis	Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
SARA 311/312 Hazardous chemical	No	

Other federal regulations	n 112 Harardous Air Dellutants (HADs) List
Not regulated.	n 112 Hazardous Air Pollutants (HAPs) List
	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Drug Enforcement Admini Chemical Code Number	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not listed.	
-	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.	
DEA Exempt Chemical Mix	tures Code Number
Not regulated.	
Food and Drug Administration (FDA)	Not regulated.
US state regulations	
US. Massachusetts RTK - S	Substance List
Not regulated. US. New Jersey Worker an	nd Community Right-to-Know Act
Not regulated.	
US. Pennsylvania RTK - Ha	azardous Substances
Not regulated. US. Rhode Island RTK	
Not regulated.	
US. California Proposition	65
US - California Propos Not listed.	ition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Other information	VOC content (less water, less exempt compounds) = 0 g/L (U.S. requirement, not for emissions) Switzerland VOC incentive tax - Contains less than 3% total VOCs.
Regulatory information	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.
16. Other information, inclu	ding date of preparation or last revision
Issue date	06-Aug-2014
Version #	01
Further 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

may not meet regulatory requirements in other countries.

1. Product and Company Identification: Alternate Trade Names

document was prepared to the requirements of the jurisdiction specified in Section 1 above and

Physical & Chemical Properties: Multiple Properties
Regulatory Information: United States
HazReg Data: Europe - EUManufacturer informationHewlett-Packard Company
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Revision Information

Explanation of abbreviations

ACGIH	American Conference of Covernmental Industrial Hygiopists	
	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	