

SAFETY DATA SHEET

1. Identification

Product identifier	C5054Series
Other means of identification	Not available.
Recommended use	Inkjet printing
Recommended restrictions	None known.
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.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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. 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.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	cal name Common name and synonyms CAS number		%	
Water		7732-18-5	75-85	
2-pyrrolidone		616-45-5	<10	
Carbon black		1333-86-4	<5	

Composition commentsThis ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard
Communication Standard).

Carbon black is present only in a bound form in this preparation.

4. 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. 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

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 Assidental release measures	

6. Accidental release measures

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 excessive heat or cold.

8. Exposure controls/personal protection

Occupational exposure limits

Components	nits for Air Contaminants (29 CFR 1910.1000) Type	Value	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
US. ACGIH Threshold L Components	imit Values Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Gui	de to Chemical Hazards		
Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
ogical limit values	No biological exposure limits noted for the ingredient(s).		

Exposure guidelines	Exposure limits have not been established for this product.			
Appropriate engineering controls	Use in a well ventilated area. Provide adequate ventilation.			
Individual protection measure	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

Appearance		
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	> 199.4 °F (> 93.0 °C) Pensky-Martens Closed Cup	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
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)		
Solubility (water)	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.	
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.

11. Toxicological information

	Iduon		
Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological	effects		
Acute toxicity	Based on available data, the classi	fication criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classi	fication criteria are not met.	
Respiratory or skin sensitizat	tion		
Respiratory sensitization	Based on available data, the classi	fication criteria are not met.	
Skin sensitization	Based on available data, the classi	fication criteria are not met.	
Germ cell mutagenicity	Based on available data, the classi	fication criteria are not met.	
Carcinogenicity	Based on available data, the classi	fication criteria are not met.	
	2B) and by the State of California organizations indicate that exposu	inogen by the IARC (possibly carcinogenic to humans, Group under Proposition 65. In their evaluations of carbon black, both re to carbon black, per se, does not occur when it remains ecifically, rubber, ink, or paint. Carbon black is present only in a	
IARC Monographs. Overa	II Evaluation of Carcinogenicity		
Carbon black (CAS 1333	3-86-4) 2B	Possibly carcinogenic to humans.	
Reproductive toxicity	Based on available data, the classi	fication 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 classi	Based on available data, the classification criteria are not met.	
Further information	Complete toxicity data are not ava	Complete toxicity data are not available for this specific formulation	
Components	Refer to Section 2 for potential health effects and Section 4 for first aid measures. Species Test Results		
2-pyrrolidone (CAS 616-45-5)	opecies		
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Carbon black (CAS 1333-86-4)	nac		
Acute			
Oral			
LD50	Rat	> 8000 mg/kg	
12. Ecological informati	ION		
Product	Species	Test Results	
C5054Series (CAS Mixture)			
Aquatic			
Aquatic Acute			

Components		Species	Test Results	
2-pyrrolidone (CAS 616-45-	-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours	
Persistence and degradabili	ty Not available.			
Bioaccumulative potential	Not available.			
Partition coefficient n-o 2-pyrrolidone	ctanol / water (I	og Kow) -0.85		
Mobility in soil	Not available.			
Other adverse effects	Not available.			
13. Disposal considera	tions			
Disposal instructions		Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental		
	HP original ink		ing program enables simple, convenient recycling c ore information and to determine if this service is w.hp.com/recycle.	
14. Transport informat	ion			
DOT				
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Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. Massachusetts RTK - S	Substance List			
2-pyrrolidone (CAS 616-4				
Carbon black (CAS 1333-	86-4) Id Community Right-to-Know Act			
Carbon black (CAS 1333-				
	and Community Right-to-Know Law			
2-pyrrolidone (CAS 616-4	5-5)			
Carbon black (CAS 1333-	86-4)			
US. Rhode Island RTK				
Not regulated.				
US. California Proposition				
-	ition 65 - CRT: Listed date/Carcinogenic substance			
	RBORNE, UNBOUND PARTICLES Listed: February 21, 2003 E [<= 10 MICROMETERS]) (CAS			
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, including date of preparation or last revision				
Issue date	02-Apr-2015			
Version #	01			
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard 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.			
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US Direct 1-650-857-5020			

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