

SAFETY DATA SHEET

1. Identification

Product identifier	51640ASeries
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)	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.
	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. 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	Common name and synonyms	CAS number	%
Water		7732-18-5	75-85
2-pyrrolidone		616-45-5	<15

Chemical name	Common name and synonyms	CAS number	%
Carbon black		1333-86-4	<5
Isopropyl alcohol		67-63-0	<2.5
Composition comments	This ink supply contains an aqueous ink formulat This product has been evaluated using criteria sp Communication Standard).		200 (Hazard
	Carbon black is present only in a bound form in t	this preparation.	
4. First-aid measures			
Inhalation	Move to fresh air. If symptoms persist, get media	cal attention.	
Skin contact	Wash affected areas thoroughly with mild soap a attention.	nd water. If irritation pers	sists get medical
Eye contact	Do not rub eyes. Immediately flush with large an least 15 minutes or until particles are removed. I		
Ingestion	If ingestion of a large amount does occur, seek r	medical attention.	
Most important symptoms/effects, acute and delayed	Contact with skin and eyes may result in irritation	n.	
5. Fire-fighting measures	5		
Notes	No ignition, sustained combustion or flashing det (method in US 49CFR173, Appendix H).	ected using the Sustained	Combustibility Test
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	None established.		
Specific methods	None established.		
General fire hazards	Contact with skin and eyes may result in irritation	n.	
6. Accidental release mea	asures		
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. A or diatomaceous earth, commercial sorbents, or material into a bag or other sealed container. Dispose of in compliance with federal, state, and	recover using pumps. Slov	
Environmental precautions	Do not let product enter drains. Do not flush into	surface water or sanitary	v 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 fro	m excessive heat or cold.	
8. Exposure controls/per Occupational exposure limits	sonal protection		

Components	Туре	Value
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3
Isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Тур	е	V	alue	
			4()0 ppm	
US. ACGIH Threshold Lin Components	nit Values Typ	e	V	alue	Form
Carbon black (CAS 1333-86-4)	TWA	ł	3	mg/m3	Inhalable fraction.
Isopropyl alcohol (CAS 67-63-0)	STE	L	40)0 ppm	
·	TWA	A	20)0 ppm	
US. NIOSH: Pocket Guide Components	e to Chemical Hazar Typ		V	alue	
Carbon black (CAS 1333-86-4)	TWA	Ą	0.	1 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STE	L	12	225 mg/m3	
	TWA	A	98	00 ppm 30 mg/m3	
ological limit values			40)0 ppm	
ological limit values ACGIH Biological Exposu	re Indices				
	Value	Determinant	Specimen	Sampling Ti	ime
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* - For sampling details, plea	ase see the source doo	cument.			
posure guidelines	Exposure limits have	ve not been establis	hed for this pro	duct.	
propriate engineering ntrols	Use in a well ventil	ated area.			
dividual protection measu	res, such as persona	I protective equip	oment		
Eye/face protection	Not available.				
Skin protection					
Hand protection	Not available.				
Other	Not available.				
Respiratory protection	Not available.				
Thermal hazards	Not available.				
eneral hygiene nsiderations	Handle in accordar	nce with good indus	trial hygiene and	d safety practice	2.
Physical and chemica	al properties				
pearance					
Physical state	Liquid.				
Color	Black.				
lor	Not available.				
lor threshold	Not available.				
l	7.8 - 8.4				
' elting point/freezing point	Not available.				
itial boiling point and iling range	200 °F (93.33 °C)				
ash point	131.0 - 136.0 °F (5	5 0 - 57 8 °C)			
-	•	5.0 - 57.0 CJ			
aporation rate	Not determined				
ammability (solid, gas)	Not available.				

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
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 determined
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	> 2 cp
Other information	
Specific gravity	1 - 1.2
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 116.6 g/l

10. Stability and reactivity

Reactivity Chemical stability	Not available. 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. Toxicological information

Symptoms related to the
physical, chemical and
toxicological characteristicsNot available.Information on toxicological effectsAcute toxicityBased on available data, the classification criteria are not met.Skin corrosion/irritationBased on available data, the classification 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 classification criteria are not met.
Respiratory or skin sensitization	on and a second s
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.
	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.
Reproductive toxicity	Based on available data, the	classification 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 class	sification criteria are not met.
Further information		ailable for this specific formulation ealth effects and Section 4 for first aid measures.
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
Isopropyl alcohol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
Other		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg

12. Ecological information

Aquatic toxicity

Not expected to be harmful to aquatic organisms.

Product		Species	Test Results
51640ASeries (CAS Mix	xture)		
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 750 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 610	6-45-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Isopropyl alcohol (CAS	67-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Acute			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	9460 mg/l, 96 hours
sistence and degrad	ability No data is	available on the degradability of this product.	

Bioaccumulative potential	Not available.	
	ctanol / water (log Kow)	
2-pyrrolidone Isopropyl alcohol	-0.85 0.05	
Mobility in soil	Not available.	
Other adverse effects	Not available.	
13. Disposal consideration	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 Regulations.	
	HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling 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.	
Contaminated packaging	No special precautions.	
14. Transport informat	ion	
DOT		
Not regulated as dangerous	anods	
IATA		
Not regulated as dangerous	s goods.	
IMDG		
Not regulated as dangerous	s goods.	
ADR		
Not regulated as dangerous goo	ds.	
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	
	No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3. No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H).	
15. Regulatory informa	tion	
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.	
-	ort Notification (40 CFR 707, Subpt. D)	
Not regulated.		
5	tance List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency re	lease notification	
• • •	ated Substances (29 CFR 1910.1001-1050)	
Not listed.		
-	Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely has	zardous substance	
Not listed.		
SARA 311/312 Hazardous chemical	No	

Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK -	Substance List
2-pyrrolidone (CAS 616- Carbon black (CAS 1333 Isopropyl alcohol (CAS 6	-45-5) 3-86-4)
US. New Jersey Worker a	Ind Community Right-to-Know Act
Carbon black (CAS 1333 Isopropyl alcohol (CAS 6 US. Pennsylvania Worker	
2-pyrrolidone (CAS 616- Carbon black (CAS 1333 Isopropyl alcohol (CAS 6 US. Rhode Island RTK	3-86-4)
Isopropyl alcohol (CAS 6	57-63-0)
US. California Propositior	າ 65
US - California Propos	sition 65 - CRT: Listed date/Carcinogenic substance
	IRBORNE, UNBOUND PARTICLES Listed: February 21, 2003 ZE [<= 10 MICROMETERS]) (CAS
Other information	VOC content (less water, less exempt compounds) = <592.5 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. i	including date of preparation or last revision
Issue date	01-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.
Revision Information	Product and Company Identification: Product Uses Composition / Information on Ingredients Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity 15. Regulatory Information: Risk Phrases - Labeling GHS: Classification
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Pale Alto California, 04204 1112 US

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