

## SAFETY DATA SHEET

## 1. Identification

Product identifier	51644CSeries
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	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

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, Category 3 long-term hazard	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	P273 - Avoid release to the environment.	
Response	Not available.	
Storage	Not available.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	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	
Supplemental information	Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.	

Email: hpcustomer.inquiries@hp.com

## **3.** Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60-70
1,5-pentanediol		111-29-5	<10
2-pyrrolidone		616-45-5	<10
magnesium nitrate hexahydrate		10377-60-3	<7.5
Cyan colorant		Proprietary	<2.5

Composition comments	This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).
4. First-aid measures	

Inhalation	Remove 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.
Most important symptoms/effects, acute and delayed	Not available.

## 5. Fire-fighting measures

Suitable extinguishing media	Dry chemical, CO2, water spray or regular 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 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	No exposure limits noted for ingredient(s).
Biological 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	s, such as personal protective equipment
Eye/face protection	Not required under intended use.
Skin protection	
Hand protection	Not available.
Other	Protected gloves not required under intended use.
Respiratory protection	For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

5. Physical and chemical	properties
Appearance	
Physical state	Liquid.
Color	Cyan
Odor	Not available.
Odor threshold	Not available.
рН	7.8 - 8.6
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
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)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 167 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.** Toxicological information

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

#### Information on toxicological effects

Acute toxicity	Based 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		
<b>Respiratory sensitization</b>	Based on available data, the classi	fication 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.		
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.		
Further information	Complete toxicity data are not available for this specific formulation		
Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	

### **12. Ecological information**

**Aquatic toxicity** 

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Static acute toxicity (trout), survival (100 mg/L) = 100%Static acute toxicity (trout), survival (10 mg/L) = 100%

Product		Species	Test Results
51644CSeries (CAS Mixture)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	< 400 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Cyan colorant (CAS Proprieta	ry)		
Aquatic			
Crustacea	EC50	Daphnia	50 - 100 mg/l, 48 Hours
ersistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-oct	anol / water (l	og Kow)	
2-pyrrolidone		-0.85	
lobility in soil	Not available.		
other adverse effects	Not available.		

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.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

**Further information** 

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

#### 15. Regulatory information

US TSCA 12(b): Does not contain listed chemicals.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Hazard categories** 

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312

Hazardous chemical

#### Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5)

#### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5)

#### **US. Rhode Island RTK**

Not regulated.

#### US. California Proposition 65

Not Listed.

# Other informationVOC content (less water, less exempt compounds) = <566 g/L (U.S. requirement, not for<br/>emissions) VOC data based on formulation (Organic compounds minus solids)Regulatory informationAll chemical substances in this HP product have been notified or are exempt from notification under

chemical substances in this hP product have been notified of 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	16-Apr-2015
Version #	01

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Revision Information	Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Ecological Information: Ecotoxicity 14. Transport Information: Material Transportation Information 15. Regulatory Information: United States Material Attributes & Uses; Experimental Data: Physical States HazReg Data: Europe - EU GHS: Classification
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US Direct 1-650-857-5020

### Explanation of abbreviations

ACGIH America	an Conference of Governmental Industrial Hygienists
CAS Chemic	al Abstracts Service
<b>CERCLA</b> Compre	hensive Environmental Response Compensation and Liability Act
CFR Code of	Federal Regulations
COC Clevela	nd Open Cup
<b>DOT</b> Departs	nent of Transportation
EPCRA Emerge	ncy Planning and Community Right-to-Know Act (aka SARA)
IARC Interna	tional Agency for Research on Cancer
NIOSH Nationa	l Institute for Occupational Safety and Health
NTP Nationa	I Toxicology Program
OSHA Occupa	tional Safety and Health Administration
PEL Permiss	ible Exposure Limit
RCRA Resource	ce Conservation and Recovery Act
REC Recomm	nended
REL Recom	nended Exposure Limit
SARA Superfu	nd Amendments and Reauthorization Act of 1986
STEL Short-T	erm Exposure Limit
TCLP Toxicity	Characteristics Leaching Procedure
TLV Thresh	old Limit Value
TSCA Toxic S	ubstances Control Act
<b>VOC</b> Volatile	Organic Compounds