## 1. Chemical Product and Company Identification

Material nameCC644SeriesUse of the preparationInkjet printing

Version # 03

**Revision date** 20-Jun-2008

**Manufacturer information** Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

**General information telephone number** 

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 Jun 19, 2008

 MSDS number
 294310

### 2. Hazards Identification

**Emergency overview** Contact with skin and eyes may result in irritation.

**Acute health effects**Any potential hazards are presumed to be due to exposure to the components.

**Skin contact** 

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with skin may result in irritation.

1,5-pentanediol

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation.

Pyridine azo dye

May cause sensitization by skin contact. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

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## Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with eyes may result in irritation.

1,5-pentanediol

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation.

Pyridine azo dye

Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt # 13

Contact with eyes may result in irritation.

Substituted phthalocyanine salt #5

Risk of serious damage to eyes.

#### Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

## **Ingestion**

1-(2-hydroxyethyl)-2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

### **Potential health effects**

**Routes of exposure** 

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

#### **Chronic health effects**

None known.

## Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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3. Composition / Information o	n Ingredients		
Component/Substance		<b>CAS Number</b>	% By Weight
Cyan ink			
Water		7732-18-5	> 60
Ethyl alkyldiol		Proprietary	< 10
1,5-pentanediol		111-29-5	< 7.5
1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	< 5
Substituted phthalocyanine salt #5		Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
Aliphatic diol		629-11-8	< 5
Phenylenediamine derivative		Proprietary	< 2.5
Yellow ink			
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 15
Aliphatic diol		Proprietary	< 15
Substituted naphthalenesulfonate	salt # 13	Proprietary	< 7.5
Metal nitrate # 2	sale # 15	Proprietary	< 5
Magenta ink		· · · ·	
Water		7732-18-5	> 70
Aliphatic diol		Proprietary	< 15
1,5-pentanediol		111-29-5	< 7.5
Pyridine azo dye		Proprietary	< 5
Nitric Acid, Magnesium Salt, Hexal	vdrate	Proprietary	< 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			
First aid procedures			
<b>Eye contact</b> Do not rub eyes. Immediately flush with large amounts of contact		nts of clean warm water (low pressure)	
Lyc contact	for at least 15 minutes or until particles are removed. If irritation persists get medical attention		
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, seek medical attention.		
5. Fire Fighting Measures			
Flash point and method	> 200 °F (> 93.3	°C); Pensky-Martens Closed Cup	
Hazardous combustion products	Refer to section 10.		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	CO2, water, dry c	hemical, or foam	
Unsuitable extinguishing media	None known.		
Unusual fire and explosion hazard	None known.		

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Special firefighting

None established.

procedures

6. Accidental Release Measures

**Personal precautions** Wear appropriate personal protective equipment.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or

other sealed container. Dispose of in compliance with federal, state, and local regulations. See

also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Keep out of the reach of children. Keep away from excessive heat or cold. Storage

8. Exposure Controls/Personal Protection

**Exposure guidelines** Exposure limits have not been established for this product.

Personal protective equipment

**General** Use personal protective equipment to minimize exposure to skin and eye.

**General hygeine** considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Cyan, magenta, yellow

**Odor threshold** Not available

**Physical state** Liquid.

**Form** 

7.2 - 7.4Ηd

**Melting point** Not available Not available Freezing point

**Boiling point** Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Not determined **Evaporation rate** Not available. **Flammability** Not available Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined > 1 (air = 1.0)Vapor density

1 - 1.2 Specific gravity

Not available Relative density Solubility in water Soluble in water **Partition coefficient** Not available

(n-octanol/water)

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Auto-ignition temperature Not available

Decomposition temperature Not available

**VOC** < 3 % **Viscosity** > 2 cp

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

**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.

**Possibility of hazardous** 

reactions

Will not occur.

#### 11. Toxicological Information

**Toxicological information** Refer to Section 3 for potential health effects and Section 4 for first aid measures.

### 12. Ecological Information

**Aquatic toxicity** 

Cyan ink

LC50/96h/Fathead minnows =463 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100%Static acute toxicity (trout), survival (10 mg/L) = 100%

Yellow ink

LC50/96h/Fathead minnows =434 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100%Static acute toxicity (trout), survival (10 mg/L) = 100%

Persistence and degradability 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.

## 14. Transportation Information

### **Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

**IATA** 

Proper shipping name Not applicable
Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None

## 15. Regulatory Information

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

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#### **CERCLA (Superfund) reportable quantity**

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

**Section 302 extremely** 

hazardous substance

No

Section 311 hazardous

chemical

No

International 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.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 **Proprietary** [present]

U.S. - Pennsylvania - RTK (Right to Know) List

Nitric Acid, Magnesium Salt, **Proprietary** [present]

Hexahydrate

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 **Proprietary** sn 1136

U.S. - New Jersey - Right to Know Hazardous Substance List

Nitric Acid, Magnesium Salt, **Proprietary** sn 1136

Hexahydrate

16. Other Information

**HMIS®** ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

**Issue date** Jun 19 2008 8:07PM

Revision

Replaces sheet dated Jun 19 2008 5:05PM

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.

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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