

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material name 51644C

Product use Inkjet printing

Company identification China Hewlett-Packard Bldg.

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**CSDS** number

Revision date 16-May-2009 CAS # Mixture

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component/substance	CAS number	% by weight	
Water	7732-18-5	< 70	
1,5-pentanediol	111-29-5	< 10	
2-pyrrolidone	616-45-5	< 7.5	
Ethyl alkyldiol	Proprietary	< 7.5	
Metal nitrate #2	Proprietary	< 7.5	
Substituted phthalocyanine salt #2	Proprietary	< 2.5	

**Composition comments** This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

### 3. HAZARDS IDENTIFICATION

Classification (EU) R52/53

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### 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

1,5-pentanediol Not available. 2-pyrrolidone Not available. Alkyldiol ethoxylate Not available. Ethyl alkyldiol Not available.

Substituted phthalocyanine salt #2

Not available.

Metal nitrate #2 Not available.

Water

Not available.

Not available. **Health hazards** 

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

**Physical hazards** Not available.

Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

Skin contact 1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate #2

Contact with skin may result in irritation.

Eye contact 1,5-pentanediol

Contact with eyes may result in irritation.

Contact with eyes may result in irritation.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate #2

Contact with eyes may result in irritation.

Inhalation 2-pyrrolidone

Inhalation may result in respiratory irritation.

Inhalation may result in respiratory irritation.

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Ingestion 2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Metal nitrate #2

Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt #2

Harmful if swallowed.

Potential health effects

Chronic health effects Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to

health.

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

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

This cyan ink is classified for environmental effects according to EU Directive 1999/45/EC with Other information

R52/53

4. FIRST AID MEASURES

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for Eve contact

at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Inhalation Remove to fresh air. If symptoms persist, get medical attention. If ingestion of a large amount does occur, seek medical attention. Ingestion

5. FIRE-FIGHTING MEASURES

General fire hazards Not available. Not available. Specific hazards Fire fighting Not available.

equipment/instructions

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Extinguishing media which must not be used for safety

reasons

None known.

Flash point and method

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

**Unusual fire & explosion** 

hazards

None known.

Hazardous combustion

products

Refer to section 10.

Specific methods

None established.

6. ACCIDENTAL RELEASE MEASURES

**Evacuation procedures** Not available.

Personal precautions Wear appropriate personal protective equipment.

Methods for cleaning up Soak up with inert absorbent material.

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

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or Spill or leak procedure

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

See also section 13 Disposal considerations.

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, **Containment procedures** 

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

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#### 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures** Provide adequate ventilation.

Personal protective equipment

Respiratory protection For use other than intended use (such as in the event of a large spill), goggles and respirators

may be required.

**Eye protection** Not required under intended use.

**Skin and body protection** Protected gloves not required under intended use.

Hand protection Not available.

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

Additional exposure data Exposure limits have not been established for this product.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Liquid.
Color Cyan

Odor

pH 7.8 - 8.6

Melting point Not available.

Boiling point Not determined

Relative density Not available.

Partition coefficient Not available.

(n-octanol/water)

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

Auto-ignition temperature Not available. Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Solubility (water) Soluble in water
Product use Inkjet printing

VOC < 3 % Viscosity > 2 cp

Evaporation rate

Flammability

Not determined

Vapor pressure

Vapor density

Specific gravity

Not determined

> 1 (air = 1.0)

1 - 1.2

# 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

Materials to avoid Not available.

Conditions to avoid Not available.

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Hazardous polymerization

Will not occur.

Hazardous decomposition

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

products

carbon dioxide and/or low molecular weight hydrocarbons.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicityNot available.Eye contactNot available.Skin contactNot available.

**Further information**This ink formulation has not been tested for toxicological effects.

Refer to Section 3 for potential health effects and Section 4 for first aide measures.

**Toxicological information**Complete toxicity data are not available for this specific formulation

### 12. ECOLOGICAL INFORMATION

Ecotoxicity Not available.

Persistence and degradability Not available.

Aquatic toxicity LC50/96h/Fathead minnows =400 mg/L

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

#### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products

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.

Contaminated packaging Not available.

### 14. TRANSPORT INFORMATION

### **ADR**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

### IATA

Proper shipping name Not applicable Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None
Packaging non bulk None
Labels required None

**General** Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

#### 15. REGULATORY INFORMATION

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.

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#### 16. OTHER INFORMATION

Manufacturer Hewlett-Packard Company

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Finalized date 16-May-2009

Prepared by Approved by

Sections changed Not available.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by

2001/58/EC.

**List of relevant R phrases** R8 Contact with combustible material may cause fire.

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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

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