

### 1. Chemical Product and Company Identification

Material name 51649 Series

Use of the preparation Inkjet printing

Version # 04

Revision date 19-Mar-2008

AS # Mixture

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 Mar 18, 2008

MSDS number 264182

#### **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

1,5-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 # 1

Contact with skin may result in irritation.

Metal nitrate # 2

Contact with skin may result in irritation. Substituted napthalenesulfonate salt #10 May cause sensitization by skin contact. Substituted triphenylmethane salt #1 Contact with skin may result in irritation.





1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

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 # 1

Contact with eyes may result in irritation.

Metal nitrate # 2

Contact with eyes may result in irritation.

Substituted napthalenesulfonate salt #10

Risk of serious damage to eyes.

Substituted triphenylmethane salt #1

Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Metal nitrate # 1

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

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

arylazopyrazolesulfonate salt # 1

Toxic if swallowed.

Diethylene glycol

Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous

system.

Metal nitrate # 1

Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt # 2

Harmful if swallowed.

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

Cyan ink:

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

Yellow ink:

Arylazopyrazolesulfonate salt: Prolonged ingestion exposure may cause serious damage to

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.

Composition / Information o Component/Substance		umber % Ry Weight
Cyan ink	CAS III	umber % By Weight
Water 1,5-pentanediol 2-pyrrolidone Ethyl alkyldiol Metal nitrate # 2 Substituted phthalocyanine salt # 2 Alkyldiol ethoxylate Substituted triphenylmethane salt #	7732-1 111-29 616-45 Propriet Propriet Propriet Propriet	7-5 < 10 6-5 < 7.5 etary < 7.5 etary < 7.5 etary < 5
Magenta ink	Propriet	tary < 2.5
Water 1,5-pentanediol 2-pyrrolidone Ethyl alkyldiol Metal nitrate # 2 Substituted napthalenesulfonate salt Alkyldiol ethoxylate	#10 7732-18 111-29- 616-45- Propriet Propriet Propriet Propriet	-5 < 10 -5 < 7.5 tary < 7.5 tary < 7.5
Yellow ink	ТТОРПЕВ	ary < 5
Nater Ethyl alkyldiol Metal nitrate # 1 P-pyrrolidone Diethylene glycol Irylazopyrazolesulfonate salt # 1 Ilkyldiol ethoxylate	7732-18 Proprieta Proprieta 616-45-5 111-46-6 Proprieta Proprieta	ary < 10 ary < 7.5 5 < 5 6 < 5 ary < 5
	his ink supply contains an aqueous	

First aid	procedures
-----------	------------

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.

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

Inhalation Remove to fresh air. If symptoms persist, get medical attention.

Ingestion If ingestion of a large amount does occur, seek medical attention.

### ... Fire Fighting Measures

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

Material name 51649 SERIES Creation date Jul 07, 2003

MSDS US

Version number 4



Hazardous combustion

products

Refer to section 10.

Flammable properties

None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting

procedures

None established.

#### 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.

Methods for containment

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.

Methods for cleaning up

Other information

Soak up with inert absorbent material.

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.

. 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

**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.

Eye / face protection

Not required under intended use.

Skin protection

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.

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.

6.1 - 8.4

Melting point

Not available

Freezing point

Not available

Material name 51649 SERIES Creation date Jul 07, 2003

Version number 4

MSDS US

4/8



**Boiling point** 

Not determined

Flash point

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

**Evaporation rate** 

Not determined

Flammability

Not available.

Flammability limits in air,

upper, % by volume

Not available

Flammability limits in air, lower, % by volume

Not determined

Vapor pressure

Not determined

Vapor density

> 1 (air = 1.0)

Specific gravity

1 - 1.2

Relative density

Not available

Solubility in water

Soluble in water

**Partition coefficient** 

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

VOC

< 3 %

Viscosity

> 2 cp

## b. 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

**Oral toxicity** 

Magenta ink

Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Yellow ink

LD50/oral/rat >2500 mg/kg (OECD 423)

Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Eye irritation

Magenta ink

Mild irritant in rabbit (OECD 405)

Sensitization

Magenta ink

Non-sensitizer in guinea pig (OECD 406) (OECD 406)

Material name 51649 SERIES Creation date Jul 07, 2003



#### 2. Ecological Information

#### Aquatic toxicity

Cyan ink

LC50/96h/Fathead minnows = < 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 67%Static acute toxicity (trout), survival (10 mg/L) = 100%

Magenta ink

 $LC50/96h/Fathead\ minnows = < 400\ mg/L$ 

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

LC50/96h/Fathead minnows =< 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 23%Static acute toxicity (trout), survival (10 mg/L) = 93%

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.

#### ATA

Proper shipping name

Not applicable

Hazard class

Not applicable

**UN number** 

None

Packing group

N/A

Packaging exceptions

None

#### 15. Regulatory Information

US federal regulations

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

### CERCLA (Superfund) reportable quantity

# 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

No

chemical

Material name 51649 SERIES Creation date Jul 07, 2003

MSDS US



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,

#### State regulations

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

Metal nitrate # 2

Proprietary

Present

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

Metal nitrate # 2

Proprietary

sn 1143

#### 16. Other Information

**HMIS®** ratings

Health: 1

Flammability: 1

Physical hazard: 0

NFPA ratings

Health: 1

Flammability: 1

Instability: 0

Issue date

Mar 18 2008 5:28PM

Revision

Replaces sheet dated

Mar 13 2008 7:22PM

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.

MSDS sections updated

8. Exposure Controls/Personal Protection: Respiratory

Material name 51649 SERIES Creation date Jul 07, 2003



#### **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