

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

C6578 Series

preparation

Use of the preparation

Inkjet printing

Selectability number

78

Manufacturer information

Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

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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 1-208-323-2551

(Direct)

12-12-2004

Revision date MSDS number

15250

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

7732-18-5	
7732-18-5	
	< 70
111-29-5	< 10
Proprietary	< 7.5
616-45-5	< 7.5
Proprietary	< 7.5
Proprietary	< 2.5
Proprietary	< 2.5
6484-52-2	< 2.5
7732-18-5	< 70
111-29-5	< 10
Proprietary	< 7.5
616-45-5	< 7.5
Proprietary	< 7.5
Proprietary	< 2.5
Proprietary	< 2.5
6484-52-2	< 2.5
	111-29-5 Proprietary 616-45-5 Proprietary Proprietary Proprietary 6484-52-2  7732-18-5 111-29-5 Proprietary 616-45-5 Proprietary Proprietary Proprietary

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Component/Substance	CAS Number	% By Weight
Yellow ink		
Water	7732-18-5	< 70
1,5-pentanediol	111-29-5	< 10
Ethyl alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate #2	Proprietary	< 7.5
Alkyldiol ethoxylate	Proprietary	< 2.5
Ammonium nitrate	6484-52-2	< 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).	

# 3. 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.

Amino alkyldiol

Contact with skin may result in irritation.

Ammonium nitrate

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.

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# MATERIAL SAFETY DATA SHEET

#### Eye contact

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.

Amino alkyldiol

Contact with eyes may result in irritation.

Ammonium nitrate

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.

#### Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Amino alkyldiol

Inhalation may result in respiratory irritation.

Ammonium nitrate

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.

Ammonium nitrate

Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate #2

Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt #2

Harmful if swallowed.

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# MATERIAL SAFETY DATA SHEET

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 health.

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.

4. FIRST AID MEASURES

First aid procedures

Eye 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** 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.

5. FIRE FIGHTING MEASURES

Flash point and method

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

**Hazardous combustion** 

products

Refer to section 10.

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.

Procedures if material is released or spilled

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.

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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

**Exposure limit values** 

Exposure limits have not been established for this product.

Personal protective equipment

General

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

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

**Exposure guidelines** 

Use in a well ventilated area.

# 9. PHYSICAL & CHEMICAL PROPERTIES

pН

6.5 - 8.75

Vapor pressure

Not determined

**Boiling point** 

Not determined Soluble in water

Solubility
Specific gravity

1 - 1.2

VOC content

< 3 %

Flash point

> 93.3 °C (> 200 °F)

Viscosity

> 2 cp

Vapor density

> 1 (air = 1.0)

Evaporation rate

Not determined

**Flammability** 

Not determined

Color

Cyan, magenta, yellow

# 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability

Stable under recommended storage conditions.

Hazardous polymerization

Will not occur.

Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Incompatibility

Incompatible with strong bases and oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

This ink formulation has not been tested for toxicological effects.

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

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#### 12. ECOLOGICAL INFORMATION

#### Aquatic toxicity

Cyan 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%

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%

Yellow 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%

#### 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

General

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

IATA

Proper shipping name

Hazard class

Not applicable Not applicable

Special precautions

None

None

Packaging exceptions

Identification number

None

(UN)

Packing group

N/A

### 15. REGULATORY INFORMATION

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.

US federal regulations

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

**HMIS** ratings

Health

1

Reactivity

1 0

NFPA ratings

Health

1

Flammability Classification

Flammability Classification

1

Reactivity

0

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

Section 302 Extremely

N

**Hazardous Substance** 

Hazard categories

Section 311 Hazardous

No

Chemical

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

#### 16. OTHER INFORMATION

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications

regulation (29 CFR 1910.1200).

Issue date

12-12-2004

Revision

2

Replaces sheet dated

10-06-2004

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**

Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

Composition / Information on Ingredients: Ingredient Extensions

Fire Fighting Measures: Fire & Explosion Properties Physical & Chemical Properties: Material Properties

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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

Code of Federal Regulations **CFR** 

COC Cleveland Open Cup

DOT Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

International Agency for Research on Cancer **IARC** 

National Institute for Occupational Safety and Health NIOSH

NTP National Toxicology Program

Occupational Safety and Health Administration **OSHA** 

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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