## 1. Chemical Product and Company Identification

Material name51605R Rev BUse of the preparationInkjet printing

Version # 02

Revision date 27-Mar-2008
CAS # 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 26, 2008

### 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

2-pyrrolidone

Contact with skin may result in irritation.

Alkvldiol

Contact with skin may result in irritation.

**Eye contact** 

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

**Inhalation** 

2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldiol

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

arylazopyrazolesulfonate salt # 1

Toxic if swallowed. *Ethylene glycol* 

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

system.



**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** Arylazopyrazolesulfonate 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.

### 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight	
Water	7732-18-5	> 40	
2-pyrrolidone	616-45-5	< 30	
Ethylene glycol	107-21-1	< 25	
Alkyldiol	Proprietary	< 7.5	
arylazopyrazolesulfonate salt # 1	Proprietary	< 2.5	
<b>Composition comments</b>	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

**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.

## 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

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.

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### 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 Soak up with inert absorbent material.

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.

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

## 8. Exposure Controls/Personal Protection

## **Exposure limits**

#### **ACGIH**

Components	CAS #	TWA	STEL	Ceiling
Ethylene glycol	107-21-1	Not established	Not established	100 mg/m3
arylazopyrazolesulfonate salt	Proprietary	100 ppm	Not established	Not established

**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 Red

**Odor threshold** Not available **Physical state** Liquid.

7 - 7.4 pН

**Melting point** Not available Not available Freezing point **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, Not available upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Vapor pressure Not determined

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Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

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

(n-octanol/water)

**Auto-ignition temperature** Not available **Decomposition temperature** Not available

< 3 % VOC **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

**Oral toxicity** LD50/oral/rat >2500 mg/kg (OECD 401)

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

Non - irritant in rabbit (OECD 405) Eye irritation

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Ethylene glycol 107-21-1 respiratory system, skin, eyes, CNS

12. Ecological Information

LC50/96h/Fathead minnows => 750 mg/L **Aquatic toxicity** 

Persistence and degradability Not available

13. Disposal Considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

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

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## 15. Regulatory Information

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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Ethylene glycol 107-21-1 1.0 % de minimis concentration

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Ethylene glycol 107-21-1 5000 lb final RQ; 2270 kg final RQ

### **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

No

hazardous substance

Section 311 hazardous

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

chemical

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

Ethylene glycol 107-21-1 Environmental hazard

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

sn 0878 Ethylene glycol 107-21-1

## 16. Other Information

**HMIS®** ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

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Revision 2

Replaces sheet dated Jan 9 2006 11:17PM

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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 3. Hazards Identification: Routes of exposure

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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