1. Identification of the substance/preparation and of the company/undertaking

**Identification of the preparation**

C5056A

**Selectability number**

90

**Use of the preparation**

Inkjet printing

**Company identification**

Hewlett-Packard Australia Pty Ltd
31-41 Joseph Street
Blackburn
Victoria 3130
Australia

**Hewlett-Packard health effects line**

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

**General information telephone number**

Telephone + 61 3 8877-8000
(Fax) + 61 3 9898-7831

**HP Customer Care Line**

(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551

**Revision date**

07-Dec-2004

**MSDS number**

14137

2. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
<th>EU number</th>
<th>EU classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&lt; 70</td>
<td>231-791-2</td>
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</tr>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 15</td>
<td>203-854-4</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
<td>210-483-1</td>
<td>Xi; R36/38</td>
</tr>
<tr>
<td>Alkyldicarboxylic acid</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
<td>Proprietary</td>
<td>Xi; R36/37/38</td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>112-60-7</td>
<td>&lt; 5</td>
<td>203-989-9</td>
<td>Xi; R36/37/38</td>
</tr>
<tr>
<td>Substituted xanthium salt #1</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
<td>Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

**Composition comments**

This ink supply contains an aqueous ink formulation. This product was evaluated according to the criteria of the National Occupational Health and Safety Commission (NOHSC) Australia.

3. Hazards identification

**2-pyrrolidone**

Xi; R36/38; S24/25, 26, 36/37/39, 60

**Alkyldicarboxylic acid**

Xi; R36/37/38

**Tetraethylene glycol**

Xi; R36/37/38; S23, 25, 26, 60

**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.

Alkyldicarboxylic acid
Contact with skin may result in irritation.

Tetraethylene glycol
Contact with skin may result in irritation.

Eye contact

1,5-pentanediol
Contact with eyes may result in irritation.

2-pyrrolidone
Contact with eyes may result in irritation.

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

Substituted xanthylum salt #1
Contact with eyes may result in mild irritation.

Tetraethylene glycol
Contact with eyes may cause irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Alkyldicarboxylic acid
Inhalation may result in respiratory irritation.

Tetraethylene glycol
Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.

Alkyldicarboxylic acid
Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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.
MATERIAL SAFETY DATA SHEET

Potential health effects

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.

Other information Australia: Non-hazardous substance. Non-dangerous goods.

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.

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.
MATERIAL SAFETY DATA SHEET

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 and chemical properties

pH  3.8 - 4.2
Vapour pressure  Not determined
Boiling point  Not determined
Solubility  Soluble in water
Specific gravity  1 - 1.2
VOC content  < 3 %
Flash point  > 93.3 °C (> 200 °F)
Viscosity  > 2 cp
Vapour density  > 1 (Air = 1.0)
Evaporation rate  Not determined
Flammability  Not determined
Oxidising properties  Not determined
Color  Magenta

10. Stability and reactivity

Stability  Stable under recommended storage conditions.
Hazardous polymerisation  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 oxidising 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.

12. Ecological information

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

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. Transport information
MATERIAL SAFETY DATA SHEET

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

IATA

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>None</td>
</tr>
<tr>
<td>Identification number (UN)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.

EU label
This product does not require a label according to EU Directive 1999/45/EC.

16. Other information

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

Ingredient risk phrase definition(s)
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.

Other information
This MSDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003.

Issue date
07-Dec-2004

Revision
3

Replaces sheet dated
01-Dec-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.
### Explanation of Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>COC</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act (aka SARA)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible exposure limit</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>REC</td>
<td>Recommended</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act of 1986</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>