MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation  C9363 Series
Use of the preparation  Inkjet printing
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  Sep 06, 2005
MSDS number  67324

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component/Substance</th>
<th>CAS Number</th>
<th>% By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan ink</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted phthalocyanine salt #1</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Magenta ink</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</td>
</tr>
<tr>
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<td>111-29-5</td>
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</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulphonate salt #11</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Yellow ink</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulphonate salt #13</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Composition comments</td>
<td>This ink supply contains an aqueous ink formulation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).</td>
<td></td>
</tr>
</tbody>
</table>

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.
Material name  C9363 SERIES  
Creation date  Nov 03, 2003  
Version number  5

MATERIAL SAFETY DATA SHEET

Skin contact

1.5-pentanediol
Contact with skin may result in irritation.

2-pyrollidone
Contact with skin may result in irritation.

Alkyl diol ethoxylate
Contact with skin may result in severe irritation.

Ethyl alkyl diol
Contact with skin may result in mild irritation.

Metal nitrate # 2
Contact with skin may result in irritation.

Substituted naphthalenesulfonate salt #13
Contact with skin may result in irritation.

Eye contact

1.5-pentanediol
Contact with eyes may result in irritation.

2-pyrollidone
Contact with eyes may result in irritation.

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

Ethyl alkyl diol
Contact with eyes may result in mild irritation.

Metal nitrate # 2
Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt #11
Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt #13
Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Metal nitrate # 2
Inhalation may result in respiratory irritation.

Substituted naphthalenesulfonate salt #13
Inhalation may result in respiratory irritation.

Ingestion

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

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

Metal nitrate # 2
Contains nitrate salts, may cause methemoglobinemia.

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.

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.
4. FIRST AID MEASURES

First aid procedures

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

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.

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
None established.

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

pH
6.2 - 6.8

Vapor 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)
**MATERIAL SAFETY DATA SHEET**

**Viscosity**  
> 2 cp

**Vapor density**  
> 1 (air = 1.0)

**Evaporation rate**  
Not determined

**Flammability**  
Not determined

**Oxidizing properties**  
Not determined

**Color**  
Cyan, magenta, yellow

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**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.

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**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
- *Magenta ink*  
  LC50/96h/Fathead minnows =< 400 mg/L
- *Yellow ink*  
  LC50/96h/Fathead minnows =< 400 mg/L

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**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.

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**14. TRANSPORTATION INFORMATION**

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

**IATA**

- **Proper shipping name**  
  Not applicable
- **Hazard class**  
  Not applicable
- **Packaging exceptions**  
  None
- **Identification number (UN)**  
  None
- **Packing group**  
  N/A

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**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 TSCA 12(b): Does not contain listed chemicals.
# MATERIAL SAFETY DATA SHEET

**HMIS ratings**  
- **Health:** 1  
- **Flammability:** 1  
- **Physical hazard:** 0

**NFPA ratings**  
- **Health:** 1  
- **Flammability:** 1  
- **Instability:** 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Section 302 extremely hazardous substance</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 311 hazardous chemical</td>
<td>No</td>
</tr>
</tbody>
</table>
| Hazard categories                         | 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**  
Sep 6 2005 8:58AM

**Revision**  
4

**Replaces sheet dated**  
Sep 6 2005 8:34AM

**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>