1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Material name</th>
<th>C1817A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the preparation</td>
<td>Inkjet printing</td>
</tr>
<tr>
<td>Version #</td>
<td>04</td>
</tr>
<tr>
<td>Revision date</td>
<td>19-Mar-2008</td>
</tr>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Manufacturer information</td>
<td>Hewlett-Packard Company</td>
</tr>
<tr>
<td></td>
<td>1000 NE Circle Boulevard</td>
</tr>
<tr>
<td></td>
<td>Corvallis, OR 97330-4239US</td>
</tr>
</tbody>
</table>

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

Date prepared  Mar 18, 2008

MSDS number 264175

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.

   Substituted naphthalenesulfonate salt #3 May cause sensitization by skin contact.

   Eye contact

   2-pyrrolidone Contact with eyes may result in irritation.

   Substituted naphthalenesulfonate salt #2 Risk of serious damage to eyes.

Inhalation

   2-pyrrolidone Inhalation may result in respiratory irritation.

Ingestion

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

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

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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 80</td>
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<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulfonate salt #2</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulfonate salt #3</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
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</table>

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).

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.

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 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 hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color
Black

Odor threshold
Not available

Physical state
Liquid.

pH
8.25 - 8.75

Melting point
Not available

Freezing point
Not available

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 (n-octanol/water)
Not available

Auto-ignition temperature
Not available

Decomposition temperature
Not available

VOC
< 3 %

Viscosity
> 2

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

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

### 12. Ecological Information

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

#### 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.

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

### 15. Regulatory Information

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

#### CERCLA (Superfund) reportable quantity
None

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

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- No</td>
<td>- No</td>
<td>- No</td>
<td>- No</td>
<td>- No</td>
</tr>
</tbody>
</table>

| Section 302 extremely hazardous substance | No |
| Section 311 hazardous chemical | 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.
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 4:58PM

Revision
4

Replaces sheet dated
Mar 13 2008 7:16PM

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
11. Toxicological Information: Sensitization

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