1. Product and Company Identification

- **Material name**: C4911A
- **Use of the preparation**: Inkjet printing
- **Version #**: 08
- **Revision date**: 02-14-2009
- **CAS #**: Mixture
- **Company identification**: Hewlett-Packard Company
  - 3000 Hanover Street
  - Palo Alto, CA 94304-1185
  - United States
  - Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199

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

Email: hpcustomerinquiries@hp.com

**Date prepared**: Feb 13, 2009

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**: 1,5-pentanediol
    - Contact with skin may result in irritation.
  
  - **Alkyldicarboxylic acid**: Contact with skin may result in irritation.
  
  - **Substituted phthalocyanine salt #3**: 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.
  
  - **Alkyldicarboxylic acid**: Contact can cause moderate to severe irritation and possible injury to the eyes.
  
  - **Substituted phthalocyanine salt #3**: Contact with eyes may result in irritation.
  
  - **Tetraethylene glycol**: Contact with eyes may cause irritation.

  - **Inhalation**: Alkyldicarboxylic acid
    - Inhalation may result in respiratory irritation.
  
  - **Substituted phthalocyanine salt #3**: Inhalation may result in respiratory irritation.
  
  - **Tetraethylene glycol**: Inhalation may result in respiratory irritation.

  - **Ingestion**: Alkyldicarboxylic acid
    - Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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
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>&lt; 80</td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Alkyldicarboxylic acid</td>
<td>Proprietary</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>112-60-7</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Substituted phthalocyanine salt #3</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
</tbody>
</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.
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

Cyan

Odor threshold

Not available.

Physical state

Liquid.

pH

3.8 - 4.2

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 (water)

Soluble in water

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

VOC

< 3 %

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
Not available.

12. Ecological Information
Aquatic toxicity
LC50/96h/Fathead minnows =461 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 100%
Static acute toxicity (trout), survival (10 mg/L) = 100%
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. Transport Information
IATA
Proper shipping name
Not applicable
Hazard class
Not applicable
UN number
None
Packing group
N/A
Packaging exceptions
None
Packaging non bulk
None
Labels required
None

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

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)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
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. 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: 0
Physical hazard: 0
MATERIAL SAFETY DATA SHEET

NFPA ratings
Health: 1
Flammability: 0
Instability: 0

Issue date
Feb 13 2009 4:56PM

Revision
8

Replaces sheet dated
Feb 5 2009 9:00AM

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

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

Manufacturer information
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Corvallis, OR 97330-4239 US
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(Toll-free within the US) 1-800-457-4209

Material name C4911A
Creation date Jul 28, 2003

Version number 10