1. Product and Company Identification

<table>
<thead>
<tr>
<th>Identification of the preparation</th>
<th>C5010Series[C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product use</td>
<td>Inkjet printing</td>
</tr>
<tr>
<td>Version #</td>
<td>09</td>
</tr>
<tr>
<td>Revision date</td>
<td>16-Oct-2012</td>
</tr>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
</tbody>
</table>
| 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: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview
Contact with skin and eyes may result in irritation.
Causes skin 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.
### 3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Alkylidicarboxylic acid</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted phthalocyanine salt #3</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>112-60-7</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</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.

**General advice**

No additional information

### 5. Fire Fighting Measures

**Flammable properties**

- None known.

**Extinguishing media**

- **Suitable extinguishing media**
  - For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.
  - For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

- **Unsuitable extinguishing media**
  - None known.

**Specific methods**

- None established.

**Hazardous combustion products**

- Refer to section 10.

### 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.
8. Exposure Controls / Personal Protection

Exposure guidelines: Exposure limits have not been established for this product.

Engineering controls: Use in a well ventilated area.

Personal protective equipment:
- General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.
- General: Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Not available.</td>
</tr>
<tr>
<td>Color</td>
<td>Cyan</td>
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<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
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<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>3.8</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>200 °F (93.3 °C) Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2 cp</td>
</tr>
<tr>
<td>VOC</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other information</td>
<td>For other VOC regulatory data/information see section 15.</td>
</tr>
</tbody>
</table>

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

Serious eye damage/eye irritation: Not available.

Further information: This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.
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

Further information
Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

15. Regulatory Information

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

DEA Exempt Chemical Mixtures Code Number
- Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
- Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
- Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
- Not regulated.

CERCLA (Superfund) reportable quantity
None

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical
- Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

Section 302 extremely hazardous substance
- No

Section 311 hazardous chemical
- Yes

State regulations
US. Massachusetts RTK - Substance List
- Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
- Not regulated.

US. Pennsylvania RTK - Hazardous Substances
- Not regulated.
US. Rhode Island RTK
Not regulated.

Regulatory information
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

Other information
This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings
Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 2
Instability: 0

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 product 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.

Issue date
16-Oct-2012

This data sheet contains changes from the previous version in section(s):
- Product and Company Identification: Alternate Trade Names
- Composition / Information on Ingredients: Disclosure Overrides
- 5. Fire Fighting Measures: Suitable extinguishing media
- 9. Physical & Chemical Properties: Other information
- 11. Toxicological Information: Further information
- 14. Transport Information: Further information

Manufacturer information
Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</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>
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<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
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</tbody>
</table>
1. Product and Company Identification

Identification of the preparation

C5010Series[M]

Product use

Inkjet printing

Version #

04

Revision date

16-Oct-2012

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: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview

Contact with skin and eyes may result in irritation.

Causes skin 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.

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 azonaphthalene mixed salt

Contact with eyes may result in irritation.

Tetraethylene glycol

Contact with eyes may cause irritation.

Inhalation

Alkyldicarboxylic acid

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.
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
Complete toxicity data are not available for this specific formulation.

Carcinogenicity
None known.
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>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Alkyldicarboxylic acid</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Substituted azonaphthalene mixed salt</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>112-60-7</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</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. If irritation persists get medical attention.

Inhalation
Move to fresh air. If symptoms persist, get medical attention.

Ingestion
If ingestion of a large amount does occur, seek medical attention.

General advice
No additional information.

5. Fire Fighting Measures

Flammable properties
None known.

Extinguishing media

Suitable extinguishing media
CO2, water, dry chemical, or foam

Unsuitable extinguishing media
None known.

Specific methods
None established.

Hazardous combustion products
Refer to section 10.

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.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Description</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure guidelines</td>
<td>Exposure limits have not been established for this product.</td>
</tr>
<tr>
<td>Engineering controls</td>
<td>Use in a well ventilated area.</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td>General hygiene considerations</td>
</tr>
<tr>
<td></td>
<td>Handle in accordance with good industrial hygiene and safety practice.</td>
</tr>
<tr>
<td></td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Use personal protective equipment to minimize exposure to skin and eye.</td>
</tr>
</tbody>
</table>

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Magenta</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
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<td>Odor threshold</td>
<td>Not available</td>
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<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Form</td>
<td>Not available</td>
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<tr>
<td>pH</td>
<td>3.8</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
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<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>200 °F (93.3 °C) Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available.</td>
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<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
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<tr>
<td>Vapor density</td>
<td>Not available</td>
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<td>Specific gravity</td>
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<tr>
<td>Relative density</td>
<td>Not available</td>
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<tr>
<td>Solubility (water)</td>
<td>Soluble in water</td>
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<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2 cp</td>
</tr>
<tr>
<td>VOC</td>
<td>Not available</td>
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</table>

10. Chemical Stability & Reactivity Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Incompatible with strong bases and oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Non-sensitizer in guinea pig (OECD 406) (OECD 406)</td>
</tr>
<tr>
<td>Further information</td>
<td>Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.</td>
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</table>

12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Aquatic toxicity</td>
<td>LC50/96h/Fathead minnows =417 mg/L</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Not available.</td>
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</table>
13. Disposal Considerations

Disposal instructions
Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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

Further information
Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

15. Regulatory Information

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

DEA Exempt Chemical Mixtures Code Number
Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA (Superfund) reportable quantity
None

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical
Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

State regulations

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.
Regulatory information

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.

Other information


Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

16. Other Information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings

Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

Disclaimer

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Issue date

16-Oct-2012

This data sheet contains changes from the previous version in section(s):

- Product and Company Identification: Alternate Trade Names
- Composition / Information on Ingredients: Ingredients
- 4. First Aid Measures: Skin contact
- 4. First Aid Measures: Inhalation
- 5. Fire Fighting Measures: Suitable extinguishing media
- 8. Exposure Controls / Personal Protection: Engineering controls
- 11. Toxicological Information: Further information
- 13. Disposal Considerations: Disposal instructions
- 14. Transport Information: Further information
- 15. Regulatory Information: Other information

Manufacturer information

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209
### Explanation of abbreviations

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1. Product and Company Identification

Identification of the preparation: C5010Series[Y]
Product use: Inkjet printing
Version #: 04
Revision date: 16-Oct-2012
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: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview: Contact with skin and eyes may result in irritation.
Causes skin 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.
- 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 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.

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

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<th>Percent</th>
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<td>1,5-pentanediol</td>
<td>111-29-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidicarboxylic acid</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulfonate salt #7</td>
<td>Proprietary</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>112-60-7</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 60</td>
</tr>
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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. If irritation persists get medical attention.

Inhalation

Move to fresh air. If symptoms persist, get medical attention.

Ingestion

If ingestion of a large amount does occur, seek medical attention.

General advice

No additional information.

5. Fire Fighting Measures

Flammable properties

None known.

Extinguishing media

Suitable extinguishing media

CO2, water, dry chemical, or foam

Unsuitable extinguishing media

None known.

Specific methods

None established.

Hazardous combustion products

Refer to section 10.

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.
Engineering controls
Use in a well ventilated area.
Personal protective equipment
General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.
General
Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties
Appearance
Not available.
Color
Yellow
Odor
Not available.
Odor threshold
Not available.
Physical state
Liquid
Form
Not available.
pH
3.8
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 limits in air, upper, % by volume
Not available.
Flammability limits in air, lower, % by volume
Not determined
Vapor pressure
Not determined
Vapor density
Not available.
Specific gravity
1
Relative density
Not available.
Solubility (water)
Soluble in water
Auto-ignition temperature
Not available.
Decomposition temperature
Not available.
Viscosity
2 cp
VOC
Not available.
Other information
For other VOC regulatory data/information see section 15.

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
Serious eye damage/eye irritation
Not available.
Further information
This ink formulation has not been tested for toxicological effects. Refer to Section 2 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%

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

- DOT
  Not regulated as dangerous goods.
- IATA
  Not regulated as dangerous goods.
- IMDG
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- RID
  Not regulated as dangerous goods.

15. Regulatory Information

- US federal regulations
  US TSCA 12(b): Does not contain listed chemicals.
  DEA Exempt Chemical Mixtures Code Number
    Not regulated.
  Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
    Not regulated.
  Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
    Not listed.
  TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
    Not regulated.

- CERCLA (Superfund) reportable quantity
  None

- Occupational Safety and Health Administration (OSHA)
  29 CFR 1910.1200 hazardous chemical
    Yes

- Superfund Amendments and Reauthorization Act of 1986 (SARA)
  Hazard categories
    Immediate Hazard - No
    Delayed Hazard - No
    Fire Hazard - Yes
    Pressure Hazard - No
    Reactivity Hazard - No
  Section 302 extremely hazardous substance
    No
  Section 311 hazardous chemical
    Yes

- State regulations
  - US. Massachusetts RTK - Substance List
    2-pyrrolidone (CAS 616-45-5)
  - US. New Jersey Worker and Community Right-to-Know Act
    Not regulated.
US. Pennsylvania RTK - Hazardous Substances
2-pyrrolidone (CAS 616-45-5) Listed.
US. Rhode Island RTK
Not regulated.

Regulatory information
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.

Other information
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