1. Chemical Product and Company Identification

Material name: C6179A
Use of the preparation: Inkjet printing
Version #: 04
Revision date: 19-Mar-2008
CAS #: Mixture
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: Mar 18, 2008
MSDS number: 264187

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.

2-pyrrolidone
Contact with skin may result in irritation.

Alkyldiol ethoxylate
Contact with skin may result in severe irritation.

Ethyl alkyldiol
Contact with skin may result in mild irritation.

Metal nitrate # 1
Contact with skin may result in irritation.

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

Substituted naphthalenesulfonate salt #10
May cause sensitization by skin contact.

Substituted triphenylmethane salt #1
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.

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

Ethyl alkyldiol
Contact with eyes may result in mild irritation.

Metal nitrate # 1
Contact with eyes may result in irritation.

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

Substituted napthalenesulfonate salt #10
Risk of serious damage to eyes.

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

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.

Metal nitrate # 1
Inhalation may result in respiratory irritation.

Metal nitrate # 2
Inhalation may result in respiratory irritation.

Ingestion

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

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

arylazopyrazolesulfonate salt #1
Toxic if swallowed.

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Metal nitrate # 1
Contains nitrate salts, may cause methemoglobinemia.

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

Substituted phthalocyanine salt #2
Harmful if swallowed.

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 name C6179A
Creation date Jul 07, 2003
Version number 4
MATERIAL SAFETY DATA SHEET

Cyan ink:
Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to health.

Yellow ink:
Arylazopyrazolesulfonate salt: Prolonged ingestion exposure may cause serious damage to health.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component/Substance</th>
<th>CAS Number</th>
<th>% By Weight</th>
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</thead>
<tbody>
<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>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
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<tr>
<td>Substituted phthalocyanine salt # 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>Substituted triphenylmethane salt #1</td>
<td>Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

Magenta ink

<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; 60</td>
</tr>
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<td>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Metal nitrate # 2</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
</tr>
<tr>
<td>Substituted naphthalenesulfonate salt #10</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

Yellow ink

<table>
<thead>
<tr>
<th>Component/Substance</th>
<th>CAS Number</th>
<th>% By Weight</th>
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</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 70</td>
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<tr>
<td>Ethyl alkylidol</td>
<td>Proprietary</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Metal nitrate # 1</td>
<td>Proprietary</td>
<td>&lt; 7.5</td>
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<tr>
<td>2-pyrollidone</td>
<td>616-45-5</td>
<td>&lt; 5</td>
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<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>&lt; 5</td>
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<tr>
<td>Arylazopyrazolesulfonate salt # 1</td>
<td>Proprietary</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Alkylidol ethoxylate</td>
<td>Proprietary</td>
<td>&lt; 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
MATERIAL SAFETY DATA SHEET

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.

Eye / face protection

Not required under intended use.

Skin protection

Protected gloves not required under intended use.

Respiratory protection

For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color

Cyan, magenta, yellow

Odor threshold

Not available

Physical state

Liquid.

pH

6.1 - 8.4

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 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

Oral toxicity
Magenta ink
Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Yellow ink
LD50/oral/rat >2500 mg/kg (OECD 423)
Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Eye irritation
Magenta ink
Mild irritant in rabbit (OECD 405)

Sensitization
Magenta ink
Non-sensitizer in guinea pig (OECD 406) (OECD 406)
12. Ecological Information

Aquatic toxicity

Cyan ink
LC50/96h/Fathead minnows =< 400 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 67%
Static acute toxicity (trout), survival (10 mg/L) = 100%

Magenta ink
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%

Yellow ink
LC50/96h/Fathead minnows =< 400 mg/L
Static acute toxicity (trout), survival (100 mg/L) = 23%
Static acute toxicity (trout), survival (10 mg/L) = 93%

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.

IATA
Proper shipping name Not applicable
Hazard class Not applicable
UN number None
Packing group N/A
Packaging exceptions None

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.

State regulations
U.S. - Pennsylvania - RTK (Right to Know) List
   Metal nitrate # 2 Proprietary Present
U.S. - New Jersey - Right to Know Hazardous Substance List
   Metal nitrate # 2 Proprietary sn 1143

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 5:28PM

Revision
   4

Replaces sheet dated
   Mar 13 2008 7:22PM

Disclaimer
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### 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>
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</tbody>
</table>