1. Chemical Product and Company Identification

Material name: C6119A
Use of the preparation: Inkjet printing
Version #: 05
Revision date: 26-Mar-2008
CAS #: Mixture
Product use: 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: Mar 26, 2008
MSDS number: 146840

2. Hazards Identification

Emergency overview: Contact with skin and eyes may result in irritation.
Isopropyl Alcohol Contact with skin and eyes may result in irritation. Inhalation may cause drowsiness or dizziness.

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.

Eye contact

2-pyrrolidone Contact with eyes may result in irritation.
Isopropyl Alcohol Contact with eyes may result in severe irritation.

Inhalation

2-pyrrolidone Inhalation may result in respiratory irritation.
Isopropyl Alcohol Inhalation may cause drowsiness or dizziness.

Ingestion

2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea.
MATERIAL SAFETY DATA SHEET

Potential health effects

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.

Isopropyl Alcohol

Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

Chronic health effects

Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink.

Carcinogenicity

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Other information

Isopropyl Alcohol

This product is classified for health and physicochemical effects according to EU Directive 1999/45/EC with R11, R36 and R67.

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; 70</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</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. If irritation persists get medical attention. Wash affected areas thoroughly with mild soap and water and get medical attention if irritation develops or persists.

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

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

5. Fire Fighting Measures

Flash point and method: 131 - 136 °F (55 - 57.8 °C); Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).
MATERIAL SAFETY DATA SHEET

Hazardous combustion products
Refer to section 10. Carbon monoxide and carbon dioxide.

Flammable properties
None known. Flammable Liquid and Will burn if involved in a fire and Vaporizes easily at normal temperatures and Vapors may travel to a source of ignition and flash back.

Extinguishing media
- Suitable extinguishing media: CO2, water, dry chemical, or foam
- Unsuitable extinguishing media: Dry chemical, CO2, water spray or regular foam

Unusual fire and explosion hazard
None known. Flammable Liquid and Will burn if involved in a fire and Vaporizes easily at normal temperatures and Vapors may travel to a source of ignition and flash back.

Protection of firefighters
Specific hazards arising from the chemical
None known.

Special firefighting procedures
None established.

6. Accidental Release Measures

Personal precautions
Wear appropriate personal protective equipment. Wear appropriate personal protective equipment and Ensure adequate ventilation and Remove all sources of ignition.

Environmental precautions
Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Do not let product enter drains and Do not flush into surface water or sanitary sewer system.

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. Soak up with inert absorbent material, Clean remainder with a damp cloth or vacuum cleaner, 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. Keep away from heat and sources of ignition and Avoid contact with skin and eyes Use this product with adequate ventilation.

Storage
Keep out of the reach of children. Keep away from excessive heat or cold. Keep away from excessive heat, sparks, and open flames.

8. Exposure Controls/Personal Protection

Exposure limits

ACGIH Components
<table>
<thead>
<tr>
<th>CAS #</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>3.5 mg/m3</td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>200 ppm</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

OSHA Components
<table>
<thead>
<tr>
<th>CAS #</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>3.5 mg/m3</td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>Not established</td>
</tr>
</tbody>
</table>
Exposure guidelines
Exposure limits have not been established for this product.

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Isopropyl Alcohol 67-63-0 200 ppm TWA

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Carbon black 1333-86-4 3.5 mg/m3 TWA

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Carbon black 1333-86-4 3.5 mg/m3 TWA

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Isopropyl Alcohol 67-63-0 400 ppm TWA; 980 mg/m3 TWA

Personal protective equipment

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

9. Physical & Chemical Properties

Color
Black

Odor threshold
No appreciable odor

Physical state
Liquid.

pH
7.8 - 8.4

Melting point
Not available

Freezing point
Not available

Boiling point
> 200 °F (> 93.3 °C)

Flash point
131 - 136 °F (55 - 57.8 °C); Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).

Evaporation rate
Not determined

Flammability
Not available.

Flammability limits in air, upper, % by volume
Not available

Flammability limits in air, lower, % by volume
Not available

Vapor pressure
Not determined

Vapor density
> 1 (air = 1.0)

Specific gravity
1 - 1.2 g/mL

Relative density
Not available

Solubility in water
Soluble in water

Partition coefficient (n-octanol/water)
Not determined

Auto-ignition temperature
Not available
10. Chemical Stability & Reactivity Information

Chemical stability
Stable under recommended storage conditions. Stable under recommended storage conditions.

Incompatible materials
Incompatible with strong bases and oxidizing agents. Incompatible with strong acids and bases.

Hazardous decomposition products
Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Carbon monoxide and carbon dioxide.

Possibility of hazardous reactions
Will not occur. Will not occur.

11. Toxicological Information

Carcinogenicity
U.S. - OSHA - Hazard Communication Carcinogens
Carbon black 1333-86-4 Present

Symptoms and target organs
NIOSH - Pocket Guide - Target Organs
Isopropyl Alcohol 67-63-0 eyes, skin, respiratory system
NIOSH - Pocket Guide - Target Organs
Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

12. Ecological Information

Aquatic toxicity
LC50/96h/Fathead minnows =>750 mg/L LC50/96h/Fathead minnows =9460 mg/L.
EC50/48h/daphnia =13299 mg/L.
EC50/72h/algae =/> 1000 mg/L.

Persistence and degradability
Not available

Partition coefficient
Not determined

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. Dispose of in compliance with federal, state, and local regulations.

14. Transportation Information

Department of Transportation (DOT) Requirements
Not regulated as hazardous goods.
MATERIAL SAFETY DATA SHEET

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): Contains tetrahydrofuran (CASRN 109-99-9), subject to export notification requirements.
U.S. - CERCLA/SARA - Section 313 - Emission Reporting
Isopropyl Alcohol          67-63-0  1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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.

State regulations
U.S. - California - Proposition 65 - Carcinogens List
Carbon black          1333-86-4  carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)

U.S. - Pennsylvania - RTK (Right to Know) List
Isopropyl Alcohol     67-63-0  Environmental hazard

U.S. - Pennsylvania - RTK (Right to Know) List
Carbon black          1333-86-4  Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Carbon black          1333-86-4  sn 0342

U.S. - New Jersey - Right to Know Hazardous Substance List
Isopropyl Alcohol     67-63-0  sn 1076; sn 2381 (strong-acid process manufacture)

16. Other Information

HMIS® ratings
Health: 1
Flammability: 2
Physical hazard: 0
MATERIAL SAFETY DATA SHEET

NFPA ratings
- Health: 1
- Flammability: 2
- Instability: 0

Issue date
Mar 26 2008 1:02PM

Revision
5

Replaces sheet dated
Dec 15 2007 4:19PM

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
3. Hazards Identification: Chronic health effects
3. Hazards Identification: Carcinogenicity
8. Exposure Controls/Personal Protection: Respiratory
15. Regulatory Information: Canadian regulations

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
- 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

Material name C6119A
Creation date Apr 30, 2003
Version number 5
MSDS US