



# MATERIAL SAFETY DATA SHEET

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## 1. Chemical Product and Company Identification

<b>Material name</b>	C6119A
<b>Use of the preparation</b>	Inkjet printing
<b>Version #</b>	05
<b>Revision date</b>	26-Mar-2008
<b>CAS #</b>	Mixture
<b>Product use</b>	Inkjet printing
<b>Manufacturer information</b>	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US
<b>Hewlett-Packard health effects line</b>	
<b>(Toll-free within the US)</b>	1-800-457-4209
<b>(Direct)</b>	1-503-494-7199
<b>General information telephone number</b>	
<b>HP Customer Care Line</b>	1-800-474-6836
<b>(Toll-free)</b>	1-800-474-6836
<b>(Direct)</b>	1-208-323-2551
<b>Date prepared</b>	Mar 26, 2008
<b>MSDS number</b>	146840

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## 2. Hazards Identification

<b>Emergency overview</b>	Contact with skin and eyes may result in irritation. <i>Isopropyl Alcohol</i> Contact with skin and eyes may result in irritation. Inhalation may cause drowsiness or dizziness.
<b>Acute health effects</b>	Any potential hazards are presumed to be due to exposure to the components.
<b>Skin contact</b>	<i>2-pyrrolidone</i> Contact with skin may result in irritation.
<b>Eye contact</b>	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Isopropyl Alcohol</i> Contact with eyes may result in severe irritation.
<b>Inhalation</b>	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Isopropyl Alcohol</i> Inhalation may cause drowsiness or dizziness.
<b>Ingestion</b>	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.



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## 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

### *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

Component/substance	CAS number	% by weight
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 15
Carbon black	1333-86-4	< 5
Isopropyl Alcohol	67-63-0	< 5

### 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. 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).



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**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 Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media**

None known. None known.

**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.

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## 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.

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## 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.

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## 8. Exposure Controls/Personal Protection

**Exposure limits****ACGIH****Components****CAS #****TWA****STEL****Ceiling**

Carbon black

1333-86-4

3.5 mg/m3

Not established

Not established

Isopropyl Alcohol

67-63-0

200 ppm

400 ppm

Not established

**OSHA****Components****CAS #****TWA****STEL****Ceiling**

Carbon black

1333-86-4

3.5 mg/m3

Not established

Not established

Isopropyl Alcohol

67-63-0

400 ppm

Not established

Not established



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## 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.

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## 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



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<b>Decomposition temperature</b>	Not available
<b>VOC</b>	< 3 %
<b>Viscosity</b>	> 2 cp
<b>Bulk density</b>	1 - 1.2 gm/ml

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## 10. Chemical Stability & Reactivity Information

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

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## 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)

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## 12. Ecological Information

<b>Aquatic toxicity</b>	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.
<b>Persistence and degradability</b>	Not available
<b>Partition coefficient</b>	Not determined

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## 13. Disposal Considerations

<b>Disposal instructions</b>	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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> . Dispose of in compliance with federal, state, and local regulations.
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## 14. Transportation Information

### Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.



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## IATA

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

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## 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)

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## 16. Other Information

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



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**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**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds