



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

<b>Identification of the preparation</b>	C6656A
<b>Selectability number</b>	56
<b>Use of the preparation</b>	Inkjet printing
<b>Company identification</b>	Hewlett-Packard (Canada) Co. 5150 Spectrum Way Mississauga, Ontario Canada L4W 5G1
<b>Hewlett-Packard health effects line</b>	
(Toll-free within the US)	1-800-457-4209
(Direct)	1-503-494-7199
<b>General information telephone number</b>	
Canada	1-800-387-3867
HP Customer Care Line	
(Toll-free)	1-800-474-6836
(Direct)	1-208-323-2551
<b>Date prepared</b>	09-Jan-2006
<b>SDS number</b>	109669

## 2. 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	< 2.5
<b>Composition comments</b>	This ink supply contains an aqueous ink formulation. The components of this product have been evaluated in accordance with the hazard criteria of the Canada Controlled Products Regulations.	

## 3. Hazards identification

<b>Emergency overview</b>	Contact with skin and eyes may result in irritation.
<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 irritation.
<b>Inhalation</b>	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Isopropyl Alcohol</i> Inhalation may cause drowsiness or dizziness.



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## Ingestion

*2-pyrrolidone*

Ingestion may result in 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

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 has been classified by IARC as a Group 2B (possible human carcinogen) None of the other ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP or OSHA.

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## 4. First aid measures

### First aid procedures

#### Skin

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

#### Eye

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.

#### Inhalation

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

#### Ingestion

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

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## 5. Fire-fighting measures

### Flash point and method

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

### Hazardous combustion products

Refer to section 10.

### Extinguishing media

CO<sub>2</sub>, water, dry chemical, or foam

### Unsuitable extinguishing media

None known.

### Unusual fire and explosion hazard

None known.

### Special firefighting procedures

None established.

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## 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.

### Procedures if material is released or spilled.

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.

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## 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.



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## 8. Exposure controls/personal protection

**Exposure limit values** 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/m<sup>3</sup> TWA

### Personal protective equipment

**General** Use personal protective equipment to minimize exposure to skin and eye.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Exposure guidelines** Use in a well ventilated area.

## 9. Physical and chemical properties

**pH** 7.8 - 8.4

**Vapour pressure** Not determined

**Boiling point** > 200 °F

**Solubility** Soluble in water

**Specific gravity** 1 - 1.2 g/mL

**VOC content** < 3 %

**Flash point** 131 - 136 °F

**Viscosity** > 2 cp

**Vapour density** > 1 (Air = 1.0)

**Evaporation rate** Not determined

**Oxidising properties** Not determined

**Color** Black

## 10. Stability and reactivity

**Stability** Stable under recommended storage conditions.

**Hazardous polymerisation** Will not occur.

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

**Incompatibility** Incompatible with strong bases and oxidising agents.

## 11. Toxicological information

Complete toxicity data are not available for this specific formulation .

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

### Carcinogenicity

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

**Material name** C6656A

MSDS Canada

**Creation date** 30-Apr-2003

**Version number** 5

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## 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

### General

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

### IATA

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

## 15. Regulatory information

### 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.

### WHMIS classification

Not a WHMIS controlled product.

Not a WHMIS controlled product.

### HMIS ratings

Health:	1
Flammability:	2
Physical hazard:	0

### NFPA ratings

Health:	1
Flammability:	2
Instability:	0

## 16. Other information

### Manufacturer information

Hewlett-Packard Company  
1000 NE Circle Boulevard  
Corvallis, OR 97330-4239 US

### Other information

This MSDS was prepared in accordance with Canada Controlled Product Regulations.

### 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.

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5

### Replaces sheet dated

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## 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