



# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation	51640A
Product use	Inkjet printing
Version #	03
Revision date	24-Feb-2011
Chemical family	ink
CAS #	Mixture
Company identification	Hewlett Packard Argentina SA Montaneses 2140 Buenos Aires Argentina Telephone +54 11 4787-7100  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
Product use	Inkjet printing

## 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

*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.

### 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.

#### Carcinogenicity

Complete toxicity data are not available for this specific formulation

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk.

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

#### Other information

This black ink is not classified according to EU Directive 1999/45/EC.

Australia: Non-hazardous substance. Non-dangerous goods.

#### Classification

Not classified.

#### Physical hazards

Not classified as a physical hazard.

#### Health hazards

Not classified as a health hazard.

#### Environmental hazards

Not classified as an environmental hazard.

**Specific hazards**

This product is a hazardous chemical, satisfying the criteria for highly flammable liquids in Part 1 Schedule 1, of the Manufacture, Storage, and Import of Hazardous Chemicals Rules 1989 (India).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS #	Percent	EC-No.	Classification
Water	7732-18-5	70 - 80	231-791-2	
2-pyrrolidone	616-45-5	10 - 15	210-483-1	Xi;R36/38
Carbon black	1333-86-4	2.5 - 5	215-609-9	
Isopropyl alcohol	67-63-0	1 - 2.5	200-661-7	F;R11, Xi;R36, R67

**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). This product was evaluated according to the criteria of the National Occupational Health and Safety Commission (NOHSC) Australia. The components of this product have been evaluated in accordance with the hazard criteria of the Canada Controlled Products Regulations. This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.  
For the full text of the R phrases mentioned in this Section, see Section 16.  
Carbon black is present only in a bound form in this preparation.

**4. FIRST AID MEASURES****Inhalation**

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

**Skin contact**

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

**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.

**Ingestion**

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

**5. FIRE-FIGHTING MEASURES****Flash point**

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

**Suitable extinguishing media**

CO2, water, dry chemical, or foam

**Extinguishing media which must not be used for safety reasons**

None known.

**Flammable properties**

None known.

**Unusual fire & explosion hazards**

None known.

**Specific hazards**

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.

**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****Occupational exposure limits****Argentina****Components****Type****Value**

Carbon black (1333-86-4)

TWA

3.5000 mg/m3

Isopropyl alcohol (67-63-0)

STEL

500.0000 ppm

Components	Type	Value
	TWA	400.0000 ppm
<b>Exposure guidelines</b>	Exposure limits have not been established for this product.	
<b>Additional exposure data</b>	Exposure limits have not been established for this product.	
<b>Engineering measures</b>	Use in a well ventilated area. Provide adequate ventilation.	
<b>Personal protective equipment</b>		
<b>Respiratory protection</b>	For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.	
<b>Eye protection</b>	Not required under intended use.	
<b>Skin and body protection</b>	Protected gloves not required under intended use.	
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.	
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Not available.
<b>Physical state</b>	Liquid
<b>Form</b>	Not available.
<b>Color</b>	Black.
<b>Odor</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	7.8
<b>Boiling point</b>	93.3 °C (200 °F)
<b>Flash point</b>	55 °C (131 °F) Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not determined
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not determined
<b>Viscosity</b>	2 cp
<b>Vapor density</b>	Not available.
<b>Evaporation rate</b>	Not determined
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Specific gravity</b>	1
<b>Bulk density</b>	1 gm/ml
<b>VOC</b>	< 3 %

## 10. STABILITY AND REACTIVITY

<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous polymerization</b>	Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogenicity</b>	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Further information</b>	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.

---

## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	LC50/96h/Fathead minnows =>750 mg/L
-------------------------	-------------------------------------

---

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of in compliance with Israeli Ministry of the Environment and local regulations. 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> .
------------------------------	--

---

## 14. TRANSPORT INFORMATION

<b>Further information</b>	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID. No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3.
----------------------------	---

Not a regulated article under Israeli Transport Services Law and Regulation 1997, United States DOT, IATA, ADR, IMDG or RID.

### ADR

Not regulated as dangerous goods.

### IATA

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

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

---

## 15. REGULATORY INFORMATION

### Labeling

<b>Contains</b>	2-pyrrolidone, Carbon black, Isopropyl alcohol, Water
<b>EC Label</b>	This product does not require a label according to EU Directive 1999/45/EC.

<b>Regulatory information</b>	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. This product is a hazardous chemical, satisfying the criteria for highly flammable liquids in Part 1 Schedule 1, of the Manufacture, Storage, and Import of Hazardous Chemicals Rules 1989 (India).
-------------------------------	---

<b>Other information</b>	Information about steering tax on giving on volatile organic compounds (VOC) can be found in Section 9 (physical and chemical qualities).
--------------------------	---

---

## 16. OTHER INFORMATION

<b>Wording of the R-phrases in sections 2 and 3</b>	R11 Highly flammable. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R67 Vapours may cause drowsiness and dizziness
---	---

<b>Other information</b>	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC. This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200). This MSDS was prepared in accordance with Canada Controlled Product Regulations. This MSDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003. This Safety Data Sheet for Chemical Products (FISPQ) was prepared in compliance with ABNT NBR 14725:2005.
<b>Disclaimer</b>	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.
<b>Issue date</b>	24-Feb-2011
<b>This data sheet contains changes from the previous version in section(s):</b>	HAZARDS IDENTIFICATION: Specific hazards HAZARDS IDENTIFICATION: Chronic health effects HAZARDS IDENTIFICATION: Carcinogenicity COMPOSITION/INFORMATION ON INGREDIENTS: Composition comments TOXICOLOGICAL INFORMATION: Carcinogenicity REGULATORY INFORMATION: Regulatory information
<b>Manufacturer information</b>	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

#### 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