



## Product Safety Information Sheet

*General environmental and safety information for consumers*

### 1. Product and Company Identification

#### 1.1 Identification of the preparation

51641A – No. 41A cyan, magenta and yellow inks

#### 1.2 Company undertaking identification

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

#### 1.3 Emergency telephone number

Hewlett-Packard Health Effects Line  
1-800-457-4209 (USA and Canada) or  
Intl +1-503-494-7199 (all other areas)

#### 1.4 General information telephone number

1-208-323-2551 (in USA and Canada)  
Intl +1-208-323-2551 (all other areas)

Hazard rating	NFPA/HMIS
Health	1
Flammability	2
Instability/Reactivity	0
Special	none

### 2. Composition/information on ingredients

This ink cartridge contains aqueous ink formulations.

*For cyan (blue) ink formulation only:*

Component	CAS No.	% by weight	Workplace Limits (PEL, TLV)
Trade secret colorants	not specified	<5	Not established
1,5-pentanediol	111-29-5	<10	Not established
Trade secret organic materials	not specified	<20	Not established
Nitrates	not specified	<4	Not established
Water	7732-18-5	balance	Not established



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*For magenta (red) ink formulation only:*

<b>Component</b>	<b>CAS No.</b>	<b>% by weight</b>	<b>Workplace Limits (PEL, TLV)</b>
Trade secret colorants	not specified	<5	Not established
1,5-pentanediol	111-29-5	<10	Not established
Trade secret organic materials	not specified	<20	Not established
Nitrates	not specified	<4	Not established
Water	7732-18-5	balance	Not established

*For yellow ink formulation only:*

<b>Component</b>	<b>CAS No.</b>	<b>% by weight</b>	<b>Workplace Limits (PEL, TLV)</b>
Trade secret colorants	not specified	<5	Not established
Diethylene glycol	111-46-6	<5	Not established
Trade secret organic materials	not specified	<20	Not established
Nitrates	not specified	<4	Not established
Water	7732-18-5	balance	Not established

**3. Hazards Identification**

**3.1 Primary Routes of Exposure**  
skin, eye, oral, and inhalation

**3.2 Acute Health Hazards**

**Skin:** Ink may cause slight skin irritation characterized by redness and swelling after prolonged contact. Indications may be masked by color of ink.

**Eye:** Ink may be mildly irritating.

**Oral:** May cause stomach upset.

**Inhalation:** Prolonged intentional inhalation may result in primary irritation to the respiratory tract.

**3.3 Chronic Health Hazards**

None noted

**3.4 Carcinogenicity**

No substance in this ink formulation is a listed carcinogen according to ACGIH, EPA, EU, IARC, MAK and OSHA criteria.



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**4. First Aid Measures**

**4.1 Emergency First Aid Procedures**

**Call the HEWLETT-PACKARD HEALTH EFFECTS LINE at 1-800-457-4209 (Intl + 1-503-494-7199 outside USA and Canada).**

**First aid for skin**

Wash affected areas thoroughly with soap and water. Clothing should be laundered before reuse. **Seek medical attention if skin irritation persists.**

**First aid for eyes**

Contact with eyes may cause mild irritation. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. **Seek medical attention if eye irritation persists.**

**First aid for ingestion**

Ingestion of ink may cause stomach upset. Call the HEWLETT-PACKARD HEALTH EFFECTS LINE. **Seek medical attention if stomach upset persists.**

**First aid for inhalation**

Remove to fresh air.

**5. Fire Fighting Measures**

<b>Flash point:</b> >200°F, >93°C	<b>Autoignition temperature:</b> not determined
<b>Extinguishing media:</b> Water, dry chemical, carbon dioxide, foam	<b>Special fire fighting procedures:</b> none
<b>Unusual fire and explosion hazards:</b> no special hazards known	

**6. Accidental release measures**

*Spill or Leak Procedures*

No special procedures are indicated. Use absorbent towels to wipe up ink. Rinse area with damp cloth to remove remaining traces of ink.

**7. Handling and storage**

No special handling or storage required.

**KEEP OUT OF THE REACH OF CHILDREN**

<b>Storage temperature:</b> 59° – 95°F; 15° – 35°C	<b>Shelf life:</b> 18 months
<b>Handling and storage precautions:</b> do not use inkjet cartridge when frozen. Ensure inkjet cartridge exterior is dry before inserting into printer.	<b>Special sensitivity:</b> none



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**8. Exposure control / personal protection**

No special eye or skin protection is needed for cleanup of spills. Standard eye and skin protection for laboratory chemical safety is required.

**9. Physical and chemical properties**

<b>Appearance:</b> cyan (blue), magenta (red), yellow liquids	<b>Physical state:</b> liquid at room temperature
<b>pH:</b> 6.0 - 8.6	<b>Solvent content:</b> <25%
<b>Solubility in water:</b> soluble	<b>Vapor density:</b> >1 (air = 1.0)
<b>Odor:</b> not applicable	<b>Vapor pressure:</b> not applicable

**10. Stability and reactivity**

<b>Stability:</b> stable under normal storage conditions	<b>Thermal decomposition products:</b> Oxides of carbon/nitrogen, water
<b>Incompatibilities:</b> strong oxidizers	<b>Hazardous polymerization:</b> none

**11. Toxicological information**

Refer to sections 3. Potential Health Effects and 4. First Aid Measures

The magenta (red) and yellow ink formulations in this product have been tested.

*For the magenta (red) ink formulation:*

Eye irritation and skin sensitization tests: negative.

*For the yellow ink formulation:*

The LD50 is >2500 mg/kg.

This ink formulation contains diethylene glycol and nitrates.

- Scientific evidence indicates that ingestion of some glycols can present health hazards including CNS and metabolic abnormalities, respiratory effects and kidney disorder.
- Nitrates and their derivatives can cause methemoglobinemia and result in respiratory depression. Primary indicators of prolonged overexposure include shortness of breath, headaches, dizziness and cyanosis (bluish skin and lips).

**12. Ecological information**

No data available

**13. Disposal considerations**

Dispose in accordance with all applicable federal, state and local laws



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### **14. Transport information**

Not a regulated article under DOT or IATA or ADR or RID

### **15. Regulatory information**

According to EU Directive 88/379/EEC, this product is not classified as dangerous and therefore no hazard label is required. For other countries, including the USA, no product label would be required.

### **16. Other Information**

Date prepared: March 27, 2001.

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Section revised: 5.0

*DISCLAIMER:* This Product Safety Information Sheet is offered without charge to the customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation 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.