

**Product Safety Information Sheet***General environmental and safety information for consumers***1. Product and Company Identification****1.1 Identification of the preparation**

51645 series ink.

**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 (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 an aqueous ink formulation.

Component	CAS No.	% by weight	Workplace Limits (PEL, TLV)
Carbon black	1333-86-4	<5	Not established
Isopropyl alcohol	67-63-0	<3	400 ppm (PEL, TLV); 983 mg/m <sup>3</sup>
2-pyrrolidone	616-45-5	<10	Not established
Trade secret organic materials	Not specified	<10	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 after ingestion.

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

3.3 *Chronic Health Hazards*

None noted

3.4 *Carcinogenicity*

Carbon Black has been classified by the International Agency for Research on Cancer (IARC) as Group 2B (possible human carcinogen). Neither this component nor the other ingredients have been classified as carcinogens according to ACGIH, EPA, EU, MAK and OSHA criteria. According to IARC, printing inks are not classifiable as to their carcinogenicity to humans (Group 3).

### 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. Seek medical advice and then 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> >141 °F, >61 °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> 1 year
<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

**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> black liquid	<b>Physical state:</b> liquid at room temperature
<b>pH:</b> 7.8 - 8.4	<b>Solvent content:</b> <20%
<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

**12. Ecological information**

No data available

**13. Disposal considerations**

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

**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: August 30, 1999.

Supersedes: January 4, 1999.

*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.