

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

51604A 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) |
|------------------------|---------------|-------------|-----------------------------|
| Trade secret colorants | not specified | <5 | Not established |
| Ethylene glycol | 107-21-1 | <40 | Not established |
| Triethylene glycol | 112-27-6 | <15 | 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*

No component is a listed carcinogen according to ACGIH, EPA, EU, MAK, IARC, NTP, or OSHA criteria.

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

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|--|--|
| Flash point: >141 °F, >61 °C | Autoignition temperature: not determined |
| Extinguishing media: Water, dry chemical, carbon dioxide, foam | Special fire fighting procedures: none |
| Unusual fire and explosion hazards: 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

| | |
|--|----------------------------------|
| Storage temperature: 59° – 95 °F; 15° – 35 °C. | Shelf life: 1 year |
| Handling and storage precautions: do not use inkjet cartridge when frozen. Ensure inkjet cartridge exterior is dry before inserting into printer. | Special sensitivity: 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.

German MAK value (occupational exposure) for Ethylene Glycol: 10ml/m³ (ppm), 26mg/m³ (local irritant, cutaneous absorption).

9. Physical and chemical properties

| | |
|-------------------------------------|---|
| Appearance: black liquid | Physical state: liquid at room temperature |
| pH: 6.0 - 8.3 | Solvent content: <50% |
| Solubility in water: soluble | Vapor density: >1 (air = 1.0) |
| Odor: not applicable | Vapor pressure: not applicable |

10. Stability and reactivity

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

11. Toxicological information

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

This product has been tested.

Skin sensitization test: negative. The LD50 is >2500 mg/kg.

This ink formulation contains ethylene glycol.

- Scientific evidence indicates that ingestion of some glycols can present health hazards including CNS and metabolic abnormalities, respiratory effects and kidney disorder.

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

This product is classified in the European Union according to Directive 88/379/EEC and requires a product label. For other countries, including the USA, no product label is 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 product as described or suitability for a particular application.