



Product Safety Information Sheet

General environmental and safety information for consumers

1. Product and Company Identification

1.1 Product identification

No. 81 black ink
C4930A
C4950A
C4990A

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
Health	1
Flammability	1
Reactivity	0
Special	See sec 5

2. Composition/Information on Ingredients

Component	CAS No.	% by weight	workplace limits (PEL,TLV)
2-Pyrrolidone	616-45-5	<10	not established
trimethylolpropane	77-99-6	< 5	not established
trade secret chemicals	na	<10	not established
water	7732-18-5	balance	not established

NA – not applicable



3. Hazards Identification

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

3.2 *Acute Health Hazards*

Skin

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

Eye

May cause irritation

Oral

May cause stomach upset.

Inhalation

Prolonged inhalation may result in irritation to the respiratory tract.

3.3 *Chronic Health Hazards:* none noted

3.4 *Carcinogenicity*

This ink formulation does not contain any component identified as a carcinogen by ACGIH, EPA, EU, IARC, MAK or OSHA at a concentration of 0.1 percent or higher.

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. If skin irritation persists, get medical attention. 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

flash point: > 200 °F (> 93 °C)	Autoignition temperature: Not determined
Extinguishing media: water, dry chemical, carbon dioxide, foam	Special fire fighting procedures: See note below
Unusual fire and explosion hazards: See note below	

NOTE TO FIREFIGHTERS: This product contains trimethylolpropane (CAS 77-99-6) and should not be combined with phosphorus or phosphorus-containing materials in a fire situation because highly toxic fumes can be generated and emitted.

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

KEEP OUT OF THE REACH OF CHILDREN

Storage temperature: Room temperature.	shelf life: 1 year
Handling and storage precautions: keep container closed. 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.

9. Physical and Chemical Characteristics

Appearance: black liquid	Physical state: liquid at room temperature
Boiling point: ND	Specific gravity: ND
pH: 7.5	Solvent content: <15%
solubility in water: soluble	Vapor density: >ND (air=1.0)
odor: ND	Vapor pressure: ND

ND = not determined



10. Reactivity

Stability: Stable under normal storage conditions	Thermal decomposition products: Oxides of carbon; oxides of nitrogen; and oxides of sulfur; acetylene; aldehydes; ketones
incompatibilities: strong oxidizers; phosphorus and phosphorus-containing materials	Hazardous polymerization: none

11. Toxicological Information

Refer to sections 3. Hazards Identification and 4. First Aid Measures
Eye irritation study in rabbit – mild irritant.

12. Ecological Information

No data available

13. Disposal Considerations

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

14. Transportation Information

Not a regulated substance under DOT or IATA

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.

EPA TSCA Inventory: All ingredients are listed.

EPA TSCA 12(b): Contains no listed chemicals.

Contains no chemicals listed on California Proposition 65.

16. Other Information

Date prepared: September 4 2000

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.