



Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the preparation: **51604A Black**
Use of the preparation: Inkjet printing
Company Identification: Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, Oregon 97330-4239
United States

Emergency telephone number 1-800-457-4209 (USA and Canada)
Hewlett-Packard Health Effects Line: 503-494-7199 (USA direct)
Singapore: +001-800-332-13321

General information telephone number: 208-323-2551 (USA direct)

Local Contact Information

Ireland
Liffey Park Technology Campus
Barnhall Road,
Leixlip, Co. Kildare
Phone: 01 6150000

United Kingdom
Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Phone: 1344 36-0000

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

2.0 Composition/Information on Hazardous Ingredients

This ink supply contains an aqueous ink formulation.

Component/Substance	CAS Number	EU Number	% by Weight	EU Classification
Ethylene glycol	107-21-1	203-473-3	<35	Xn; R22
Triethylene glycol	112-27-6	203-953-2	<15	Xi; R36/38
Food Black 2 acid salt	confidential	confidential	<6	T; R25-43-52/53
Water	7732-18-5	231-791-2	> 50	not classified

3.0 Hazard Identification

This ink is classified for health effects according to EU Directive 1999/45/EC with Xn; R22.



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3.1 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.

Complete toxicity data are not available for this specific formulation.

3.2 Acute Health Hazards

Any potential hazards are presumed to be due to exposure to the components.

Ethylene glycol: Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Triethylene glycol: Contact with eyes or skin may cause irritation.

Food Black 2 acid salt: Toxic if swallowed. Contact with skin may cause an allergic reaction.

3.3 Chronic Health Hazards

None known

3.4 Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK IARC, NTP, or OSHA.

4.0 First Aid Measures

Emergency telephone number 1-800-457-4209 (USA and Canada)

Hewlett-Packard Health Effects Line: 503-494-7199 (USA direct)

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Inhalation: Remove to fresh air. If symptoms persist, consult a physician.

Ingestion: If stomach upset persists, consult a physician.

Skin: Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

Eyes: Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.

5.0 Fire Fighting Measures

Extinguishing media: Water, dry chemical, carbon dioxide, foam

Unsuitable Extinguishing Media: None known

Special Firefighting Procedures: None known



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Unusual fire and explosion hazards: No special hazards known
Auto-ignition temperature: Not determined
Flashpoint (method): > 200° F, > 93.3° C (US EPA Method 1020)
Hazardous Combustion Products Refer to section 10.

6.0 Accidental release measures

Spill or Leak Procedures: Standard eye and skin protection is recommended.
Environmental precautions: Do not discharge into drains (See also Section 13, Disposal considerations)

7.0 Handling and Storage

Storage Temperature: 59° F to 95° F; 15° C to 35° C
Handling and Storage precautions: Keep out of the reach of children
Keep away from extreme heat or cold.
Shelf Life: 1 year
Special Sensitivity: None

8.0 Exposure control/ personal protection

8.1 Exposure Limit Values Ethylene glycol: ACGIH ceiling=39.4ppm; Canada ceiling=100mg/m³; EU, Italy, Netherlands, Spain TLV=20ppm; Austria, Denmark, Germany, Ireland, Sweden, Switzerland, UK TWA=10ppm; Belgium TWA=101 mg/m³; Finland, France TWA=50ppm; Norway TWA=25ppm.

8.2 Exposure Controls Standard eye and skin protection for laboratory chemical safety is recommended. Use in well ventilated area.

9.0 Physical and chemical properties

pH: 7.5 – 8.5
Boiling point: Not Determined
Flash point: > 200° F, > 93.3° C
Flammability: US NFPA/HMIS Flammability rating = 1
Explosive properties: Not applicable
Oxidizing properties: Not applicable
Vapor Pressure: Not applicable
Relative density: Specific Gravity 1.0 to 1.2



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Solubility: Soluble in water
Partition coefficient: Not determined
Viscosity: Not determined
Vapor density: >1 (air = 1.0)
Evaporation rate: Not applicable
Other: Not applicable

10.0 Stability and reactivity

Stability: Stable under normal storage conditions
Incompatibilities: Strong oxidizers
Thermal decomposition products: Oxides of carbon/nitrogen/sulfur water
Hazardous polymerization: None

11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

Skin sensitisation: Non-sensitizer in guinea pig (OECD 406). Not classified as a skin sensitizer according to EU Directives 67/548/EEC and 1999/45/EC.

Acute oral toxicity: LD50 > 2500 mg/kg in rat (OECD 423). Not classified for acute oral toxicity according to EU Directives 67/548/EEC and 1999/45/EC.

12.0 Ecological information

Ink Formulation:
96-hour LC50 LC50 >750mg/L Fathead minnow

13.0 Disposal considerations

Dispose in accordance with all applicable US Federal, state, local, and country laws.

14.0 Transportation information

Not a regulated article under United States DOT, IATA, ADR, or RID.

UN Number: Not applicable
Class: Not applicable
Proper Shipping Name: Not applicable
Packing Group: Not applicable
Marine Pollutant: Not listed
Special Precautions: None noted



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15.0 Regulatory information

US EPA TSCA Inventory:	All ingredients are listed or exempt.
US EPA TSCA 12(b):	Does not contain listed chemicals.
EU Notification:	All ingredients are listed on EINECS and/or ELINCS or exempt.
EU Hazard Label (1999/45/EC):	Symbol – Xn Risk phrase – Harmful if swallowed (R22) Safety phrase – Keep out of the reach of children (S2) Contains ethylene glycol

16.0 Other information

Date Prepared:	July 12, 2002
HP-DMS Document Control Number:	09000de780229fe1-eng
Revision Information:	This document replaces all prior versions of the MSDS
EU Risk (R) Phrase definitions:	R22: Harmful if swallowed R25: Toxic if swallowed R43: May cause sensitization by skin contact R36/38: Irritating to eyes and skin R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Other Information:	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS 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.