



Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the preparation: **51606Y - Yellow**

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
Diethylene glycol	111-46-6	203-872-2	< 65	Xn; R22
azonaphthalenesulfonate salt	confidential	confidential	< 6	T; R25-52/53
Water	7732-18-5	231-791-2	> 35	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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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.

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

Diethylene glycol: Harmful if swallowed.

Azonaphthalenesulfonate salt: Toxic if swallowed.

Chronic Health Hazards None known.

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)
Singapore: +001-800-332-13321

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

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)



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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

Exposure Limit Values Diethylene glycol: Germany TRGS 900 = 10 ppm;
Austria, Sweden, Switzerland, TWA=10ppm;
Ireland, UK TWA=23ppm; Denmark TWA=2.5ppm

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: 5.5

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

Solubility: Soluble in water

Partition coefficient: Not determined

Viscosity: Not determined

Vapor density: >1 (air = 1.0)

Evaporation rate: Not applicable

Other: Not applicable



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10.0 Stability and reactivity

Stability: Stable under normal storage conditions
Incompatibilities: Strong oxidizers and strong bases
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

Azonaphthalenesulfonate salt:

Acute Oral Toxicity (OECD 401): LD₅₀ = 203 mg/kg

Acute Dermal Toxicity (OECD 402): LD₅₀ > 2000 mg/kg

Acute Dermal Irritation (OECD 404): negative, not classified (EU directive 1999/45/EC)

Acute Eye Irritation (OECD 405): negative, not classified (EU directive 1999/45/EC)

Skin Sensitization (OECD 406): negative, not classified (EU directive 1999/45/EC)

Ink formulation:

Acute Oral Toxicity (OECD 401): LD₅₀ > 5000 mg/kg

Acute Dermal Toxicity (OECD 402): LD₅₀ > 2000 mg/kg

Acute Dermal Irritation (OECD 404): negative, not classified (EU directive 1999/45/EC)

Acute Eye Irritation (OECD 405): negative, not classified (EU directive 1999/45/EC)

Skin Sensitization (OECD 406): negative, not classified (EU directive 1999/45/EC)

12.0 Ecological information

Azonaphthalenesulfonate salt:

Acute Fish Toxicity (OECD 203): 96 hr LC₅₀ = 420 mg/L

Acute Toxicity to *Daphnia Magna* (OECD 202): 48 Hour EC₅₀ = 32 mg/l

Ink formulation:

96-Hour LC50	LC50 >750mg/L	Fathead minnow
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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): May require a label according to EU Directive 1999/45/EC.

16.0 Other information

Date Prepared: July 12, 2002

HP-DMS Document Control Number: 09000de780229e8c-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
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 Communication Standard (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.