



# Material Safety Data Sheet

## 1.0 Product and Company Identification

**Identification of the preparation:** **C6625 Series – No 17 Color**

**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

For cyan ink formulation

| Component/Substance             | CAS Number   | EU Number    | % by Weight | EU classification      |
|---------------------------------|--------------|--------------|-------------|------------------------|
| 2-Pyrrolidone                   | 616-45-5     | 210-843-1    | <8          | Xi; R36/37/38          |
| Metal nitrate                   | confidential | confidential | <8          | O; Xi; R8-36/37/38     |
| 1,5-Pentanediol                 | 111-29-5     | 203-854-4    | <10         | not classified         |
| Ethyl alkylidiol                | confidential | confidential | <10         | not classified         |
| Substituted phthalocyanine salt | confidential | confidential | <3          | Xn; N; R22-48/22-51/53 |
| Alkylidiol ethoxylate           | confidential | confidential | <3          | Xi; R36/38             |
| Water                           | 7732-18-5    | 231-791-2    | > 50        | not classified         |



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For magenta ink formulation

| Component/Substance          | CAS Number   | EU Number    | % by Weight | EU classification  |
|------------------------------|--------------|--------------|-------------|--------------------|
| 2-Pyrrolidone                | 616-45-5     | 210-843-1    | <8          | Xi; R36/37/38      |
| Metal nitrate                | confidential | confidential | <8          | O; Xi; R8-36/37/38 |
| 1,5-Pentanediol              | 111-29-5     | 203-854-4    | <10         | not classified     |
| Ethyl alkyldiol              | confidential | confidential | <10         | not classified     |
| Azonaphthalenesulfonate salt | confidential | confidential | <3          | Xi; R41-43-52/53   |
| Alkyldiol ethoxylate         | confidential | confidential | <3          | Xi; R36/38         |
| Water                        | 7732-18-5    | 231-791-2    | > 50        | not classified     |

For yellow ink formulation

| Component/Substance           | CAS Number   | EU Number    | % by Weight | EU classification   |
|-------------------------------|--------------|--------------|-------------|---------------------|
| Ethyl alkyldiol               | confidential | confidential | <10         | not classified      |
| Metal nitrate                 | confidential | confidential | <10         | O; Xi; R8-36/37/38  |
| 2-Pyrrolidone                 | 616-45-5     | 210-843-1    | <6          | Xi; R36/37/38       |
| Diethylene glycol             | 111-46-6     | 203-872-2    | <6          | Xn; R22             |
| Arylazopyrazolesulfonate salt | confidential | confidential | <5          | T; R25- 48/22-52/53 |
| Alkyldiol ethoxylate #1       | confidential | confidential | <4          | Xi; R38-41          |
| Alkyldiol ethoxylate #2       | confidential | confidential | <3          | Xi; R36/38          |
| Water                         | 7732-18-5    | 231-791-2    | > 50        | not classified      |

## 3.0 Hazard Identification

The cyan ink is classified for environmental effects according to EU Directive 1999/45/EC with R52-53. The magenta and yellow inks are not classified according to EU Directive 1999/45/EC

### 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.



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## 3.2 Acute Health Hazards

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

2-Pyrrolidone: Contact with eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may result in nausea, vomiting, and diarrhea.

Metal nitrate: Contact with eyes and skin may cause irritation. Inhalation may cause respiratory irritation.

Note: Nitrates and their derivatives can cause methemoglobinemia and result in respiratory depression. Primary indicators of prolonged exposure include shortness of breath, headaches, dizziness and cyanosis (bluish skin and lips).

1,5-Pentanediol: Contact with eyes and skin may cause irritation. Harmful if swallowed.

Ethyl alkylidol: Contact with eyes and skin may cause mild irritation.

Alkylidol ethoxylate: Contact with skin or eyes may cause irritation.

Cyan Ink

Substituted phthalocyanine salt: Harmful if swallowed.

Magenta Ink

Azonaphthalenesulfonate: Contact with eyes may cause serious damage. Contact with skin may cause an allergic reaction.

Yellow Ink

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

Arylazopyrazolesulfonate salt: Toxic if swallowed.

Alkylidol ethoxylate #1: Contact with eyes may result in severe irritation and corneal injury. Contact with skin may result in severe irritation. Ingestion may cause irritation of mouth and throat, nausea, vomiting and diarrhea.

Alkylidol ethoxylate #2: Contact with eyes and skin may result in severe irritation. Ingestion may cause irritation of mouth and throat, nausea, vomiting, and diarrhea

Cyan ink

Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to health.

Yellow ink

Arylazopyrazolesulfonate: Prolonged ingestion exposure may cause serious damage to health

## 3.3 Chronic Health Hazards



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## 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)  
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)  
**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



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**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**

Yellow Ink  
Diethylene glycol: Germany (TRGS 900) = 10 ppm;  
Austria, Sweden, Switzerland, TWA=10ppm;  
Ireland, UK TWA=23ppm; Denmark TWA=2.5ppm

**8.2 Exposure Controls**

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

## 9.0 Physical and chemical properties

**pH:**

Cyan (Blue): 7.8 – 8.6  
Magenta (Red): 6.0 – 7.4  
Yellow: 6.0 – 6.6

**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

## 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



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## 11.0 Toxicological information

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

### Magenta Ink

Eye irritation: Mild irritant in rabbit (OECD 405). Not classified as an eye irritant according to EU Directives 67/548/EEC and 1999/45/EC.

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

### Yellow Ink

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

### Magenta Ink

|                       |                          |                |
|-----------------------|--------------------------|----------------|
| 96 Hour LC50          | LC50 < 400mg/L           | Fathead minnow |
| Static Acute Toxicity | Survival (100mg/L) = 23% | Trout          |
|                       | Survival (10mg/L) = 100% |                |

### Cyan Ink

|                       |                           |       |
|-----------------------|---------------------------|-------|
| Static Acute Toxicity | Survival (100mg/L) = 100% | Trout |
|                       | Survival (10mg/L) = 100%  |       |

### Yellow Ink

|                       |                          |                |
|-----------------------|--------------------------|----------------|
| 96 Hour LC50          | LC50 < 400mg/L           | Fathead minnow |
| Static Acute Toxicity | Survival (100mg/L) = 20% | Trout          |
|                       | Survival (10mg/L) = 100% |                |

## 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.

|                              |                |
|------------------------------|----------------|
| <b>UN Number:</b>            | Not applicable |
| <b>Class:</b>                | Not applicable |
| <b>Proper Shipping Name:</b> | Not applicable |
| <b>Packing Group:</b>        | Not applicable |
| <b>Marine Pollutant:</b>     | Not listed     |
| <b>Special Precautions:</b>  | None noted     |



# Material Safety Data Sheet

## 15.0 Regulatory information

|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>US EPA TSCA Inventory:</b>        | All ingredients are listed or exempt                          |
| <b>US EPA TSCA 12(b):</b>            | Does not contain listed chemicals.                            |
| <b>EU Notification:</b>              | All ingredients are listed on EINECS and/or ELINCS or exempt. |
| <b>EU Hazard Label (1999/45/EC):</b> | May require a label according to EU directive 1999/45/EC.     |

## 16.0 Other information

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date Prepared:</b>                  | July 12, 2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>HP-DMS Document Control Number:</b> | 09000de780229e0f-eng                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision Information:</b>           | This document replaces all prior versions of the MSDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>EU Risk (R) Phrase definitions:</b> | R8: Contact with combustible material may cause fire<br>R22: Harmful if swallowed<br>R25: Toxic if swallowed<br>R38: Irritating to skin<br>R41: Possible risks of irreversible effects<br>R43: May cause sensitization by skin contact<br>R36/38: Irritating to eyes and skin<br>R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed<br>R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment<br>R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment<br>R36/37/38: Irritating to eyes, respiratory system and skin. |
| <b>Other Information</b>               | 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.