1.0 Product and Company Identification

Identification of the preparation: 51629 Series - No. 29 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)
503-494-7199 (USA direct)
Singapore: +001-800-332-13321
208-323-2551 (USA direct)

Hewlett-Packard Health Effects Line:

General information telephone number:

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

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>NFPA/HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Instability/Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
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</tr>
</tbody>
</table>

2.0 Composition/Information on Hazardous Ingredients

This ink supply contains an aqueous ink formulation

<table>
<thead>
<tr>
<th>Component/Substance</th>
<th>CAS Number</th>
<th>EU Number</th>
<th>% by Weight</th>
<th>EU Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidone</td>
<td>616-45-5</td>
<td>210-843-1</td>
<td>&lt;7</td>
<td>Xi; R36/37/38</td>
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<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>&lt;5</td>
<td>not classified</td>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>&gt; 50</td>
<td>not classified</td>
</tr>
</tbody>
</table>

3.0 Hazard Identification

The black ink is not classified according to EU Directive 1999/45/EC

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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.

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.

Carbon Black: Chronic inhalation studies using fine dust particles resulted in lung tumors in animals. The IARC classification (see sec 3.4) was based upon these results. IARC also concluded “there is inadequate evidence in humans for the carcinogenicity of carbon black.” Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink.

3.3 Chronic Health Hazards

None noted

3.4 Carcinogenicity

Carbon black has been classified by the International Agency for Research on Cancer (IARC) as Group 2B (possibly human carcinogen). None of the other ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP or OSHA.

4.0 First Aid Measures

Emergency telephone number 1-800-457-4209 (USA and Canada)
Hewlett-Packard Health Effects 503-494-7199 (USA direct)
Line: 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.
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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 are 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.
Shelf Life: 1 year
Special Sensitivity: None

8.0 Exposure control/ personal protection

8.1 Exposure Limit Values Carbon black: OSHA, ACGIH, Canada, Denmark, Finland, France, Ireland, Italy, Netherlands, Norway, UK TWA = 3.5mg/m³; Belgium TWA=3.6mg/m³; Germany TWA=6mg/m³

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: 8.0 – 9.3
Boiling point: Not Determined

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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/sulfur/nitrogen, fluorine compounds, and water
Hazardous polymerization: None

11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures. Ink formulation has not been tested.

12.0 Ecological information

96 Hour LC50: LC50 < 750 mg/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
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): This product does not require a label according to EU Directive 1999/45/EC.

16.0 Other information

Date Prepared: June 29, 2002
HP-DMS Document Control Number: 09000de780228561-eng
Revision Information: This document replaces all prior versions of the MSDS
EU Risk (R) Phrase definitions: R36/37/38: Irritating to eyes, respiratory system and skin.
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.