1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the preparation  C5054A
Selectability number  90
Use of the preparation  Inkjet printing
Company identification  Hewlett-Packard SIA
                      Palasta iela 7
                      Riga
                      LV-1050

Hewlett-Packard health effects line
(Toll-free within the US)  1-800-457-4209
(Direct)  1-503-494-7199

General information telephone number
HP Customer Care Line
(Toll-free within the US)  1-800-474-6836
(Direct)  1-208-323-2551
Revision date  19-Dec-2004
SDS number  31114

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
<th>EU number</th>
<th>EU classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&lt; 80</td>
<td>231-791-2</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 10</td>
<td>210-483-1</td>
<td>Xi, R36/38</td>
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<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt; 5</td>
<td>215-609-9</td>
<td></td>
</tr>
</tbody>
</table>

Composition comments  This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended. For the full text of the  R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Emergency Overview  Contact with skin and eyes may result in irritation.

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

Skin contact  2-pyrrolidone
              Contact with skin may result in irritation.

Eye contact  2-pyrrolidone
            Contact with eyes may result in irritation.
2-pyrrolidone
Inhalation may result in respiratory irritation.

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure
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.

Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung tumors in animals. The IARC classification 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.

Carbon black has been classified by IARC as a Group 2B (possible human carcinogen). None of the other ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP or OSHA.

Other information
This black ink is not classified according to EU Directive 1999/45/EC.

4. FIRST AID MEASURES

First aid procedures

Eye
Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin
Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

Inhalation
Remove to fresh air. If symptoms persist, get medical attention.

Ingestion
If ingestion of a large amount does occur, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point and method
> 93.3 °C (> 200 °F); Pensky-Martens Closed Cup

Hazardous combustion products
Refer to section 10.

Extinguishing media
Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media
None known.

Unusual fire and explosion hazard
None known.

Special firefighting procedures
None established.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions: Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Procedures if material is released or spilled: Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing.

Storage: Keep out of the reach of children. Keep away from excessive heat or cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: Exposure limits have not been established for this product.

Personal protective equipment:

General: Use personal protective equipment to minimize exposure to skin and eye.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Exposure guidelines: Use in a well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

- pH: 7.8 - 8.8
- Vapor pressure: Not determined
- Boiling point: Not determined
- Solubility: Soluble in water
- Specific gravity: 1 - 1.2
- VOC content: < 3 %
- Flash point: > 93.3 °C (> 200 °F)
- Viscosity: > 2 cp
- Vapor density: > 1 (air = 1.0)
- Evaporation rate: Not determined
- Flammability: Not determined
- Oxidizing properties: Not determined
- Color: Black

10. STABILITY AND REACTIVITY

- Stability: Stable under recommended storage conditions.
- Hazardous polymerization: Will not occur.
- Hazardous decomposition products: Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
- Incompatibility: Incompatible with strong bases and oxidizing agents.
11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Aquatic toxicity LC50/96h/Fathead minnows => 750 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of in compliance with federal, state, and local regulations. HP’s Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

14. TRANSPORT INFORMATION

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

IATA

Proper shipping name Not applicable
Hazard class Not applicable
Packaging exceptions None
Identification number (UN) None
Packing group N/A

15. REGULATORY INFORMATION

International regulations All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

EU label This product does not require a label according to EU Directive 1999/45/EC.

16. OTHER INFORMATION

Manufacturer information Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US

Ingredient risk phrase definition(s)

R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

Issue date 19-Dec-2004
Revision 1
Replaces sheet dated 13-Dec-2004
SAFETY DATA SHEET

Disclaimer
This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document 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. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Explanation of abbreviations
ACGIH American Conference of Governmental Industrial Hygienists
CAS Chemical Abstracts Service
CERCLA Comprehensive Environmental Response Compensation and Liability Act
CFR Code of Federal Regulations
COC Cleveland Open Cup
DOT Department of Transportation
EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
REC Recommended
REL Recommended Exposure Limit
SARA Superfund Amendments and Reauthorization Act of 1986
STEL Short-Term Exposure Limit
TCLP Toxicity Characteristics Leaching Procedure
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds