1. Chemical Product and Company Identification

Material name: CC635Series
Use of the preparation: Inkjet printing
Version #: 03
Revision date: 26-Mar-2008
CAS #: Mixture
Manufacturer information: Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US

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 1-800-474-6836
(Toll-free) 1-800-474-6836
(Direct) 1-208-323-2551

Date prepared: Mar 26, 2008
MSDS number: 234893

2. 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.

Inhalation: 2-pyrrolidone
Inhalation may result in respiratory irritation.

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

Potential health effects

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

Chronic health effects: 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.
Carcinogenicity

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component/substance</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 80</td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

Composition comments: This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

First aid procedures

Eye contact
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 contact
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
> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Hazardous combustion products
Refer to section.

Flammable properties
None known.

Extinguishing media

Suitable 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.

Methods for containment
Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up
Soak up with inert absorbent material.

Other information
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 limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>3.5 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Exposure guidelines
Exposure limits have not been established for this product.

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Carbon black 1333-86-4 3.5 mg/m³ TWA

OSHA - Final PELs - Time Weighted Averages (TWAs)
Carbon black 1333-86-4 3.5 mg/m³ TWA

Personal protective equipment

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

Eye / face protection
Not required under intended use.

Skin protection
Protected gloves not required under intended use.

Respiratory protection
For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color
Black

Odor threshold
Not available

Physical state
Liquid.

pH
8 - 9.3

Melting point
Not available

Freezing point
Not available

Boiling point
Not determined

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

Evaporation rate
Not determined

Flammability
Not available.

Flammability limits in air, upper, % by volume
Not available

Flammability limits in air, lower, % by volume
Not determined
**Material name**  CC635SERIES  
**Creation date**  Apr 30, 2003  
**Version number**  3

### Chemical Stability & Reactivity Information

- **Chemical stability**: Stable under recommended storage conditions.
- **Incompatible materials**: Incompatible with strong bases and oxidizing agents.
- **Hazardous decomposition products**: Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
- **Possibility of hazardous reactions**: Will not occur.

### Toxicological Information

**Carcinogenicity**

- U.S. - OSHA - Hazard Communication Carcinogens
  - Carbon black 1333-86-4 Present

**Symptoms and target organs**

- NIOSH - Pocket Guide - Target Organs
  - Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

### Ecological Information

- **Aquatic toxicity**: LC50/96h/Fathead minnows =
- **Persistence and degradability**: Not available

### 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.

### Transportation Information

**Department of Transportation (DOT) Requirements**

- Not regulated as hazardous goods.
IATA
Proper shipping name  Not applicable
Hazard class  Not applicable
UN number  None
Packing group  N/A
Packaging exceptions  None

15. Regulatory Information

US federal regulations  US TSCA 12(b): Contains, subject to export notification requirements.

CERCLA (Superfund) reportable quantity  None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories  Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance  No
Section 311 hazardous chemical  No

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.

State regulations
U.S. - California - Proposition 65 - Carcinogens List
Carbon black  1333-86-4  carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)

U.S. - Pennsylvania - RTK (Right to Know) List
Carbon black  1333-86-4  Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Carbon black  1333-86-4  sn 0342

16. Other Information

HMIS® ratings  Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings  Health: 1
Flammability: 1
Instability: 0

Issue date  Mar 26 2008  2:38PM
Revision  3
Replaces sheet dated  Dec 15 2007  7:56PM
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.

MSDS sections updated

3. Hazards Identification: Routes of exposure
3. Hazards Identification: Chronic health effects
3. Hazards Identification: Carcinogenicity
8. Exposure Controls/Personal Protection: Respiratory

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