1. Identification

Product identifier: D8J31Series
Other means of identification: Not available.
Recommended use: Inkjet printing
Recommended restrictions: None known.
Company identification: HP
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States
Telephone 650-857-5020

HP health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.
Label elements
   Hazard symbol: None.
   Signal word: None.
   Hazard statement: Not available.
Precautionary statement
   Prevention: Not available.
   Response: Not available.
   Storage: Not available.
   Disposal: Not available.

Hazard(s) not otherwise classified (HNOC)
Complete toxicity data are not available for this specific formulation.
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.
Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Supplemental information
This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>75-85</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>616-45-5</td>
<td>&lt;15</td>
<td></td>
</tr>
</tbody>
</table>

Material name: D8J31Series
Version #: 02  Revision date: 31-Aug-2015  Issue date: 12-May-2015
### 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).

Carbon black is present only in a bound form in this preparation.

### 4. First-aid measures

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

#### Skin contact
Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

#### 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.

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

#### Most important symptoms/effects, acute and delayed
Contact with skin and eyes may result in irritation.

### 5. Fire-fighting measures

#### Notes
No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).

#### Suitable extinguishing media
CO2, water, dry chemical, or foam

#### Unsuitable extinguishing media
None known.

#### Specific hazards arising from the chemical
Not applicable.

#### Special protective equipment and precautions for firefighters
None established.

#### Specific methods
None established.

#### General fire hazards
Contact with skin and eyes may result in irritation.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures
Wear appropriate personal protective equipment.

#### Methods and materials for containment and cleaning up
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. Slowly vacuum or sweep the material into a bag or other sealed container.

Dispose of in compliance with federal, state, and local regulations.

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

### 7. Handling and storage

#### Precautions for safe handling
Avoid contact with skin, eyes and clothing.

#### Conditions for safe storage, including any incompatibilities
Keep out of the reach of children. Keep away from excessive heat or cold.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4)</td>
<td>PEL</td>
<td>3.5 mg/m³</td>
</tr>
<tr>
<td>Isopropyl alcohol (CAS 67-63-0)</td>
<td>PEL</td>
<td>980 mg/m³</td>
</tr>
</tbody>
</table>
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Value

US. ACGIH Threshold Limit Values Components Type Value Form
Carbon black (CAS 1333-86-4) TWA 3 mg/m³ Inhalable fraction.
Isopropyl alcohol (CAS 67-63-0) STEL 400 ppm
TWA 200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Components Value
Carbon black (CAS 1333-86-4) TWA 0.1 mg/m³
Isopropyl alcohol (CAS 67-63-0) STEL 1225 mg/m³
TWA 500 ppm
980 mg/m³
400 ppm

Biological limit values

ACGIH Biological Exposure Indices Components Value Determinant Specimen Sampling Time
Isopropyl alcohol (CAS 67-63-0) 40 mg/l Acetone Urine *

* - For sampling details, please see the source document.

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

Appropriate engineering controls
Use in a well ventilated area.

Individual protection measures, such as personal protective equipment
Eye/face protection Not available.
Skin protection
Hand protection Not available.
Other Not available.
Respiratory protection Not available.
Thermal hazards Not available.

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

9. Physical and chemical properties

Appearance
Physical state Liquid.
Color Black.
Odor Not available.
Odor threshold Not available.
pH 7.8 - 8.4
Melting point/freezing point Not available.
Initial boiling point and boiling range 200 °F (93.33 °C)
Flash point 131.0 - 136.0 °F (55.0 - 57.8 °C)
Evaporation rate Not determined
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

- **Flammability limit - lower (%)** Not available.
- **Flammability limit - upper (%)** Not available.
- **Explosive limit - lower (%)** Not available.
- **Explosive limit - upper (%)** Not available.

Vapor pressure Not determined

Solubility(ies)

- **Solubility (water)** Soluble in water

Partition coefficient (n-octanol/water) Not determined

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity > 2 cp

Other information

- **Specific gravity** 1 - 1.2

Other information For other VOC regulatory data/information see Section 15.

**VOC (Weight %)** < 116.6 g/l

10. Stability and reactivity

- **Reactivity** Not available.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** Will not occur.
- **Conditions to avoid** Not available.
- **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.

11. Toxicological information

- **Symptoms related to the physical, chemical and toxicological characteristics** Not available.

Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization**
  - **Respiratory sensitization** Based on available data, the classification criteria are not met.
  - **Skin sensitization** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

- **Carbon black (CAS 1333-86-4)** 2B Possibly carcinogenic to humans.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure
Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Further information
Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5)</td>
<td>Acute Oral LD50</td>
<td>Guinea pig 6500 mg/kg Rat 6500 mg/kg</td>
</tr>
<tr>
<td>Carbon black (CAS 1333-86-4)</td>
<td>Acute Oral LD50</td>
<td>Rat &gt; 8000 mg/kg</td>
</tr>
<tr>
<td>Isopropyl alcohol (CAS 67-63-0)</td>
<td>Acute Dermal LD50</td>
<td>Rabbit 12800 mg/kg Oral LD50</td>
</tr>
</tbody>
</table>

12. Ecological information

Aquatic toxicity
Not expected to be harmful to aquatic organisms.

Ecotoxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>D8J31Series (CAS Mixture) Acute Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) &gt; 750 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia pulex) 13.21 mg/l, 48 hours</td>
</tr>
<tr>
<td>Isopropyl alcohol (CAS 67-63-0) Aquatic Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus) &gt; 1400 mg/l, 96 hours</td>
</tr>
<tr>
<td>Acute Algae</td>
<td>EC50</td>
<td>Algae &gt; 1000 mg/l, 72 hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia 13299 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) 9460 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.
Bioaccumulative potential  Not available.

Partition coefficient n-octanol / water (log Kow)
- 2-pyrrolidone: -0.85
- Isopropyl alcohol: 0.05

Mobility in soil  Not available.

Other adverse effects  Not available.

13. Disposal considerations

Disposal instructions  Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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.

Contaminated packaging  No special precautions.

14. Transport information

DOT  Not regulated as dangerous goods.

IATA  Not regulated as dangerous goods.

IMDG  Not regulated as dangerous goods.

ADR  Not regulated as dangerous goods.

Further information  Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3.

No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H).

15. Regulatory information

US federal regulations  US TSCA 12(b): Does not contain listed chemicals.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)  Not listed.

SARA 304 Emergency release notification  Not regulated.


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

SARA 302 Extremely hazardous substance  Not listed.

SARA 311/312 Hazardous chemical  No
Other federal regulations
Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
  2-pyrrolidone (CAS 616-45-5)
  Carbon black (CAS 1333-86-4)
  Isopropyl alcohol (CAS 67-63-0)

US. New Jersey Worker and Community Right-to-Know Act
  Carbon black (CAS 1333-86-4)
  Isopropyl alcohol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law
  2-pyrrolidone (CAS 616-45-5)
  Carbon black (CAS 1333-86-4)
  Isopropyl alcohol (CAS 67-63-0)

US. Rhode Island RTK
  Isopropyl alcohol (CAS 67-63-0)

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
  CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS 1333-86-4)
  Listed: February 21, 2003

Other information
VOC content (less water, less exempt compounds) = <592.5 g/L (U.S. requirement, not for emissions)
VOC data based on formulation (Organic compounds minus solids)

Regulatory information
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.

16. Other information, including date of preparation or last revision

Issue date 12-May-2015
Revision date 31-Aug-2015
Version # 02

Disclaimer
This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

Manufacturer information
HP
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020
### Explanation of abbreviations

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