1. Identification

Important information: X4E40Series
Product identifier: X4E40Series
Other means of identification: None.
Recommended use: Inkjet printing
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States

Telephone: 650-857-5020
HP Inc. health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Inc. 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) 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. 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.

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></td>
<td>7732-18-5</td>
<td>75-85</td>
</tr>
</tbody>
</table>
### Chemical name

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidone</td>
<td></td>
<td>616-45-5</td>
<td>&lt;10</td>
</tr>
<tr>
<td>1,5-pentanediol</td>
<td></td>
<td>111-29-5</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Modified carbon black*</td>
<td>Proprietary*</td>
<td>9014-85-1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Ethoxylated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,7,9-tetramethyl-5-decyn-4,7-diol</td>
<td></td>
<td></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 29 CFR 1910.1200 (Hazard Communication Standard).

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

### 4. First-aid measures

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

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

#### 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.

### 5. Fire-fighting measures

#### Suitable extinguishing media
Dry chemical, CO2, water spray or regular foam.

#### Unsuitable extinguishing media
None known.

#### Specific hazards arising from the chemical
None known.

#### Special protective equipment and precautions for firefighters
Not available.

### 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.

#### 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
This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

#### Biological limit values
No biological exposure limits noted for the ingredient(s).

#### 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.
9. Physical and chemical properties

Appearance
- Physical state: Not available.
- Form: Not available.
- Color: Black.
- Odor: Not available.
- Odor threshold: Not available.
- pH: 7.5 - 8.2
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: Not determined
- Flash point: > 230.0 °F (> 110.0 °C) Setaflash Closed Cup
- Evaporation rate: Not determined
- Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%): Not determined
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.
- Vapor pressure: Not determined
- Vapor density: \(>= 1 \text{ (air = 1.0)}\)

Solubility(ies)
- Solubility (water): Soluble in water
- Partition coefficient\(\text{ (n-octanol/water)}\): Not available.

Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: \(>= 2 \text{ cp}\)

Other information
- For other VOC regulatory data/information see Section 15.
- Oxidizing properties: Not determined
- VOC: < 147 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

Information on likely routes of exposure
- Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- Skin contact: Contact with skin may result in mild irritation.
- Eye contact: Contact with eyes may result in mild irritation.
### Ingestion
Health injuries are not known or expected under normal use.

### 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.

<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></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Respiratory or skin sensitization

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Skin sensitization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

### 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.

### 12. Ecological information

#### Aquatic toxicity
Not expected to be harmful to aquatic organisms.

<table>
<thead>
<tr>
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<th>Species</th>
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</tr>
</thead>
<tbody>
<tr>
<td>X4E40Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>&gt; 750 mg/l, 96 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<th>Species</th>
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<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>Water flea (Daphnia pulex)</td>
<td>13.21 mg/l, 48 hours</td>
</tr>
<tr>
<td>EC50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Persistence and degradability
Not available.

### Bioaccumulative potential
Not available.
Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone: -0.85

Mobility in soil: Not available.

Other adverse effects: Not available.

13. Disposal considerations

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

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.

15. Regulatory information

US federal regulations

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


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

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.


US state regulations: Not Listed.

Other information: VOC content (less water, less exempt compounds) = <709 g/L (U.S. requirement, not for emissions), VOC data based on formulation (Organic compounds minus solids).
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 04-Jan-2018
Revision date 20-Feb-2019
Version # 02
Other information
This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

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