SAFETY DATA SHEET

1. Identification

Product identifier: W3T10BSeries
Other means of identification:

- Synonyms: HP 2590
- 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

- Category 2: Flammable liquids

Health hazards

- Not classified.

Environmental hazards

- Category 1: Hazardous to the aquatic environment, acute hazard
- Category 1: Hazardous to the aquatic environment, long-term hazard

OSHA defined hazards

- Not classified.

Label elements

Signal word: Danger

Hazard statement:
Highly flammable liquid and vapor. Very toxic to aquatic life with long lasting effects.

Precautionary statement:

Prevention:

Response:
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use sand, carbon dioxide (CO2) or dry chemical to extinguish. Collect spillage.

Storage:
- Store in a well-ventilated place. Keep cool.

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)  

Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Supplemental information  

None.

### 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | %  
|---------------|--------------------------|------------|---
| Ethyl Alcohol |  | 64-17-5 | <90 |
| Ethylacetate  |  | 141-78-6 | <7.5 |
| 2-Naphthol    |  | 135-19-3 | <0.1 |
| P-tert.-butylphenol |  | 98-54-4 | <0.1 |

### 4. First-aid measures

**Inhalation**  
Move person to fresh air immediately.  
If symptoms persist, get immediate medical attention.

**Skin contact**  
In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.  
Get medical attention, if needed.

**Eye contact**  
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately.

**Ingestion**  
Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.  
Get medical attention immediately.

**Most important symptoms/effects, acute and delayed**  
Not available.

### 5. Fire-fighting measures

**Suitable extinguishing media**  
Suitable extinguishing media: sand, carbon dioxide (CO2) or dry chemical.

**Unsuitable extinguishing media**  
Not available.

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

**Special protective equipment and precautions for firefighters**  
Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

**Fire fighting equipment/instructions**  
Move containers from fire area if you can do it without risk.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**  
Avoid contact with skin. Avoid inhalation of vapors or mists.  
Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition.  
Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

**Methods and materials for containment and cleaning up**  
Not available.

**Environmental precautions**  
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. Avoid breathing vapors or mists of this product.  
Use with adequate ventilation.  
Wear personal protective equipment.

**Conditions for safe storage, including any incompatibilities**  
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

### 8. Exposure controls/personal protection

**Occupational exposure limits**  
This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Ethylacetate (CAS 141-78-6)</td>
<td>PEL</td>
<td>1400 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Ethylacetate (CAS 141-78-6)</td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**: Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
- **Skin protection**: Recommended gloves: Nitrile 6 mil minimum thickness.
- **Hand protection**: Wear appropriate chemical resistant clothing.
- **Respiratory protection**: Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
- **Thermal hazards**: Not available.

**General hygiene considerations**

Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

### 9. Physical and chemical properties

- **Appearance**
  - Physical state: Not available.
  - Form: Liquid.
  - Color: Black.
- **Odor**: Solvent.
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: 41.0 °F (5.0 °C) Setaflash Closed Cup
- **Evaporation rate**: Not available.
- **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 available.
Vapor density Not available.
Solubility(ies)
  Solubility (water) Not available.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
Other information For other VOC regulatory data/information see Section 15.
VOC 753.5 g/l

10. Stability and reactivity

Reactivity Not available.
Chemical stability Stable at normal conditions.
Possibility of hazardous reactions None known.
Conditions to avoid Heat, flames and sparks.
Incompatible materials Not available.
Hazardous decomposition products Not available.

11. Toxicological information

Information on likely routes of exposure

  Inhalation Inhalation may result in mild irritation to the respiratory system.
  Skin contact Contact with skin may result in mild irritation.
  Eye contact Contact with eyes may result in mild irritation.
  Ingestion Ingestion is not a likely route of exposure.

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 Based on available data, the classification criteria are not met.
    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 Based on available data, the classification criteria are not met.
    IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.
    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
Very toxic to aquatic life with long lasting effects.
Static acute toxicity (trout), survival (10 mg/L) = 0%

Ecotoxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
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<tbody>
<tr>
<td>2-Naphthol (CAS 135-19-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) 2.43 - 3.9 mg/l, 96 hours</td>
</tr>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
</tr>
</tbody>
</table>

Partition coefficient n-octanol / water (log Kow)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Naphthol</td>
<td>2.7</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>-0.31</td>
</tr>
<tr>
<td>Ethylacetate</td>
<td>0.73</td>
</tr>
</tbody>
</table>

Persistence and degradability
Not available.

Bioaccumulative potential
Not available.

Mobility in soil
Not available.

Other adverse effects
Not available.

13. Disposal considerations

Disposal instructions
Do not dispose of together with general office waste.
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport information

DOT

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1210</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Printing ink, flammable (Ethyl alcohol, Ethyl acetate)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Class</td>
<td>Subsidiary risk</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>No</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not available.</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

DOT Supplemental Information
DOT Classification only applies to shipments within the US and Puerto Rico.

IATA

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1210</th>
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<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Transport hazard class(es)

- Class: 3
- Subsidiary risk: -
- Packing group: II

Marine pollutant: No

Special precautions for user: Not available.

ADR

- UN number: UN1210
- UN proper shipping name: Printing ink, flammable (Ethyl alcohol, Ethyl acetate)
- Transport hazard class(es)
  - Class: 3
  - Subsidiary risk: -
  - Hazard No. (ADR): Not available.
  - Tunnel restriction code: Not available.
- Packing group: II
- Environmental hazards: Not available.
- Special precautions for user: Not available.

DOT

Further information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

Not a marine pollutant or environmental hazard when shipping ≤ 5L containers.

15. Regulatory information

US federal regulations

- US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  Not regulated.
- CERCLA Hazardous Substance List (40 CFR 302.4)
  - Ethylacetate (CAS 141-78-6): Listed.
- SARA 304 Emergency release notification
  Not regulated.
  Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
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.

Safe Drinking Water Act (SDWA)
Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
Ethyl Alcohol (CAS 64-17-5) Low priority
Ethylacetate (CAS 141-78-6) Low priority

US state regulations
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
2-Naphthol (CAS 135-19-3)

Other information
VOC content (less water, less exempt compounds) = 754.1 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 04-Dec-2018
Revision date 01-Feb-2019
Version # 03

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.
### 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>