Section 1: Identification

Product Name: DetectX® Formaldehyde Fluorescent Detection Kit

Also known as: Catalog Number K001-F1

Manufacturer: Arbor Assays

Supplier: 1514 Eisenhower Place
Ann Arbor, MI 48108-3284
Telephone: 734-677-1774 (U.S.)
Fax: 734-677-6860 (U.S.)

Recommended Use: For Research Use Only

Section 2: Hazard(s) Identification

Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]

Formaldehyde:
- Acute Toxicity, Category 3
- Specific Organ Toxicity, Category 1
- Skin Sensitization, Category 1
- Acute Aquatic Toxicity, Category 1
- Carcinogenicity, Category 1A

Sodium Azide:
- Acute Oral Toxicity, Category 2
- Acute Dermal Toxicity, Category 1
- Specific Organ Toxicity, Category 2
- Skin Sensitization, Category 1

Hazard statements:
- Toxic.
- Harmful if inhaled, absorbed through skin or swallowed.
- May have mutagenic, teratogenic, carcinogenic effects.
- May cause sensitization by skin contact.
- Irritating to eyes, respiratory system and skin.
- Contact with acids liberates toxic gas.
- May react with lead and copper plumbing to form highly explosive metal azides.

Precautionary statements:
- Wash hands thoroughly after handling.
- Wear protective gloves, clothing, and eye/face protection.
Section 3: Information on Ingredients

**Components:** Formaldehyde Standard (C001-500UL)
Formaldehyde Reagent (C002-5ML)

<table>
<thead>
<tr>
<th>Description</th>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde Standard, C001-500UL:</td>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>&lt; 0.01%</td>
</tr>
<tr>
<td>Formaldehyde Reagent, C002-5ML:</td>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>&lt; 0.09%</td>
</tr>
</tbody>
</table>

Additional components of the kit are non-hazardous or the specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

Section 4: First-Aid Measures

- **Inhalation**
  If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.

- **Skin Contact**
  Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops seek medical attention.

- **Eye Contact**
  Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Seek medical attention.

- **Ingestion**
  If swallowed, wash out mouth with water if person is conscious. Seek medical attention.

Section 5: Fire Fighting Measures

- **Flash Point:** N/A
- **Explosion Hazards:** N/A
- **Auto-ignition Temp:** N/A
- **Flammability:** N/A
- **Extinguishing Media:** Suitable: Carbon Dioxide, dry chemical powder, or appropriate foam.
- **Firefighting Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- **Specific Hazard(s):** Emits toxic fumes under fires conditions.

Section 6: Accidental Release Measures

- **Cleanup Procedures**
  Wear appropriate protective clothing. Contain spill to prevent migration. Wipe up spill, place in sealed container and hold for appropriate disposal. Wash spill site with soap and water.

- **Waste Disposal**
  Dispose of in accordance with federal, state, and local regulations.
Section 7: Handling and Storage

Handling  Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.

Storage  Store according to the package insert instructions.

Section 8: Exposure Controls / Personal Protection

Engineering Controls  No special engineering controls are required when working with this kit. Use with adequate ventilation.

Protective Equipment  Safety glasses are recommended to prevent eye contact. Chemical resistant gloves, lab coat should be worn to prevent skin contact.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Formaldehyde Standard, C001 (Formaldehyde, &lt; 0.01%)</th>
<th>Formaldehyde Reagent, C002 (Sodium Azide, &lt; 0.09%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear colorless liquid</td>
<td>Clear colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
<td>Pungent</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
<td>Complete</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Stability  This material is stable until the expiration date on the kit if stored as directed.

Conditions to Avoid  Heat, incompatibles

Incompatibilities  Strong oxidizing agents. Sodium azide may react with lead and copper plumbing.
### Section 11: Toxicological Information

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>May cause skin irritation.</td>
</tr>
<tr>
<td>Skin Absorption</td>
<td>May be harmful if absorbed through the skin.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>May cause eye irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

**Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12: Ecological Information

Harmful to aquatic organisms. May cause long-term adverse effects in aquatic environment.

### Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

### Section 14: Transport Information

**U.S. and Canadian Transportation; DOT**

- **Proper Shipping Name**: Chemical Kits
- **UN Identification Number**: 3316
- **Class and Description**: 9, Miscellaneous
- **Packing Group**: N/A
- **Hazard Label**: Class 9

**International Air Transportation (IATA)**

- **Proper Shipping Name**: Chemical Kits
- **UN Identification Number**: 3316
- **Class and Description**: 9, Miscellaneous
- **Packing Group**: III
- **Hazard Label**: Class 9
### Section 15: Regulatory Information

**Product related information**

The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.

**Safety Statements**

Avoid release to the environment.

**Risk Statements**

Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

**U.S. Regulatory Information**

Sara Listed: Yes. The Formaldehyde (CAS# 50-00-0) and Sodium Azide (CAS# 26628-22-8) contained in this product are subject to SARA 313 reporting requirements.

### Section 16: Other Information

**Disclaimer:** For Research Use Only. Not for diagnostic, therapeutic, or other uses.

**Further Information:** The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. Arbor Assays shall not be held liable for any damage resulting from use or handling of this product.