**Product Name:** DetectX® Urinary Creatinine Detection Kit

**Section 1: Identification**

Product Name: DetectX® Urinary Creatinine Detection Kit

Also known as: Catalog Numbers K002-H1 or K002-H5

Manufacturer / Supplier: Arbor Assays

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]

Picric Acid: Skin Sensitization, Category 1

Hazard statements: May cause an allergic skin reaction. Explosive when dry.

Precautionary statements: Wash hands thoroughly after handling. Wear protective gloves, clothing, and eye/face protection.

**Section 3: Information on Ingredients**

Components: Creatinine Standard (C003-1ML, C003-1ML 2ea)

Creatinine Reagent (C004-20ML, C004-50ML 2ea)

Description: Creatinine Reagent, C004, contains:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picric Acid</td>
<td>88-89-1</td>
<td>&lt; 0.2%</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**
  Sensitivity to mechanical impact; may be shock-sensitive if dry.

- **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. Ventilate area. Contain spill to prevent migration. Keep spilled materials wet with water. Do not allow to dry. Absorb on inert material, place in sealed container for disposal. Wash spill site after pickup is complete.

- **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. Do not breathe vapor or mist. 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>Creatinine Reagent, C004 (Picric Acid, &lt; 0.2%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>This material is stable until the expiration date on the kit if stored as directed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Thermal decomposition may release toxic fumes</td>
</tr>
<tr>
<td>Incompatibilities</td>
<td>Strong oxidizing agents, strong bases, reducing agents, heavy metals, heavy metal salts, ammonia.</td>
</tr>
</tbody>
</table>

Section 11: Toxicological Information

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>May cause discoloration of the skin, sensitization dermatitis.</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 harmful if inhaled.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Symptoms of Exposure</td>
<td>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

No data is available.

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: 1789
- Class and Description: 8, Miscellaneous
- Packing Group: N/A
- Hazard Label: Class 8

**International Air Transportation (IATA)**
- Proper Shipping Name: Chemical Kits
- UN Identification Number: 1789
- Class and Description: 8, Miscellaneous
- Packing Group: III
- Hazard Label: Class 8

**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.

**U.S. Regulatory Information**
- Sara Listed: Yes. (Picric Acid, C004).

**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.