**Product Name:** DetectX® PKA Phosphokinase Activity Kit

**Section 1: Identification**

- **Product Name:** DetectX® PKA Phosphokinase Activity Kit
- **Also known as:** Catalog Number K027-H1
- **Manufacturer / Supplier:** Arbor Assays
  - Address: 1514 Eisenhower Place
  - Ann Arbor, MI 48108
  - 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]
  - Hydrochloric Acid:
    - Skin Irritant, Class 2
    - Eye Irritant, Class 2

- **Hazard statements:**
  - Causes skin irritation.
  - Causes serious eye irritation.

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

**Section 3: Information on Ingredients**

- **Components:**
  - PKA Standard (2 each, C131-1EA)
  - ATP (1 each, X103-1EA)
  - Phospho-PKA Substrate Antibody (C104-3ML)
  - Goat anti-Rabbit IgG HRP Conjugate (C105-3ML)
  - Kinase Reaction Buffer Concentrate (X104-60ML)
  - Cell Lysis Buffer (X050-100ML)
  - Wash Buffer Concentrate (X007-30ML)
  - TMB Substrate (X019-11ML)
  - Stop Solution (X020-5ML)

- **Description:** Stop Solution, X020, contains:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>3.65%</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. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.
Ingestion  If swallowed, wash out mouth with water if person is conscious. Seek medical attention.

Section 5: Fire-Fighting Measures

Extinguishing Media  Suitable: Water spray. 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. Absorb on sand or vermiculite, place in sealed container for disposal. Wash area of spill 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. Do not breathe vapor. 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 and a lab coat should be worn to prevent skin contact.
**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Stop Solution, X020 (Hydrochloric Acid, 3.65%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100°C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>0°C</td>
</tr>
<tr>
<td>Density</td>
<td>Essentially the same as water</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Essentially the same as water</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>pH</td>
<td>0.1</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.
- **Hazardous Decomposition Products**: Hydrogen chloride gas.
- **Incompatibilities**: Materials such as cyanides, sulfides, sulfites, and formaldehyde.

**Section 11: Toxicological Information**

- **Route of Exposure**
  - **Skin Contact**: May cause skin irritation.
  - **Skin Absorption**: May be harmful if absorbed through the skin.
  - **Eye Contact**: May cause eye irritation.
  - **Inhalation**: May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
  - **Ingestion**: Harmful if swallowed.

- **Symptoms of Exposure**: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**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: No.

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.