1. Product and Company Identification

Product Identifier

Product Name: ISE Kit

Product Code:

- BT-6620947D (BT-6620947AD contains Boric Acid, Tetramethylammonium Hydroxide)
- BT-6620947BD contains Boric Acid, Tetramethylammonium Hydroxide)
- BT-6620947CD contains Sodium Hydroxide, 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione)
- BT-6620943D contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione)
- BT-6620944D contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione)
- BT-6620947DAD contains Pepsin)
- BT-6620947DBD contains Hydrochloric Acid

Recommended Use: This ISE Kit is for use only on BT 3000 Plus ISE Analyzer.

Company

Diamond Diagnostics Inc.
333 Fiske Street
Holliston, MA 01746

Company Phone Number

508-429-0450

Email

support@diamonddiagnostics.com

Emergency Telephone No:

508-429-0450

2. Hazards Identification

GHS- Classification

Classification

Health Hazard, Corrosive, Toxic, Irritant

Hazard Statements

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long-lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original container.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P304 + P341  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313  IF exposed or concerned: Get medical advice/attention.  
P310  Immediately call a POISON CENTER or doctor/physician.  
P321  Specific treatment (see … on this label).  
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313  IF exposed or concerned: Get medical advice/attention.  
P310  Immediately call a POISON CENTER or doctor/physician.  
P321  Specific treatment (see … on this label).  
P337 + P313  If eye irritation persists: Get medical advice/attention.  
P342 + P311  If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P363  Wash contaminated clothing before reuse.  
P390  Absorb spillage to prevent material damage. 
P403 + P233  Store in a well-ventilated place. Keep container tightly closed.  
P406  Store in corrosive resistant/… container with a resistant inner liner.  
P501  Dispose of contents/container to an approved waste disposal plant. 

3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>Reach Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione</td>
<td>229-222-8</td>
<td>Not available</td>
<td>6440-58-0</td>
<td>&lt; 0.4% (BT-6620940SD)</td>
<td>Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>215-185-5</td>
<td>01-2119457892-27-XXXX</td>
<td>1310-73-2</td>
<td>&lt; 0.5%</td>
<td>Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>233-139-2</td>
<td>01-2119486683-25-XXXX</td>
<td>10043-35-3</td>
<td>&lt; 5-10%</td>
<td>Repr. 2; H361</td>
</tr>
<tr>
<td>Tetramethylammonium Hydroxide</td>
<td>200-882-9</td>
<td>Not available</td>
<td>75-59-2</td>
<td>1-5%</td>
<td>Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H300, H311, H314, H411</td>
</tr>
<tr>
<td>Pepsin</td>
<td>Not available</td>
<td>Not available</td>
<td>9001-75-6</td>
<td>&lt; 0.04%</td>
<td>Not available</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>231-595-7</td>
<td>01-2119484862-27-XXXX</td>
<td>7647-01-0</td>
<td>100%</td>
<td>Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H335</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Eye Contact                  Flush affected area for 15 minutes with water.  
Skin Contact                 Flush affected area with copious amounts of water.  
Inhalation                   Remove victim to fresh air. If breathing is difficult, give oxygen and seek medical aid.  
Ingestion                    If swallowed, drink water and seek medical aid if irritation persists.  
Notes to Physician            Treat symptomatically  

5. Fire-Fighting Measures

Flammable Properties       No information available  
Flash Point                 Not flammable  
Suitable Extinguishing Media Suitable for surrounding fire.  
Hazardous Combustion Products No information available  
Protective Equipment and Precautions for Firefighters Self-contained breathing apparatus and protective clothing.
6. Accidental Release Measures

Personnel Precautions Use personnel protective equipment. Avoid inhaling, ingesting and contact with eyes and skin.

Methods for Containment & Cleaning Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

Environmental Precautions Do not let product enter drains.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.

Storage Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

Specific use See Section 1 – Recommended Use

8. Exposure Controls / Personnel

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>C; 2.000000 mg/m3 TWA; 2.000000 mg/m3</td>
<td>C; 2.000000 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Boric Acid 10043-35-3</td>
<td>TWA; 2.000000 mg/m3 STEL; 6.000000 mg/m3</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Tetramethylammonium Hydroxide 75-59-2</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Pepsin 9001-75-6</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Hydrochloric Acid 7647-01-0</td>
<td>C; 2.000000 ppm</td>
<td>C; 5.000000 ppm, 7.000000 mg/m3</td>
<td>C; 5.000000 ppm, 7.000000 mg/m3</td>
</tr>
</tbody>
</table>

Engineering Measures Showers Eye Wash Stations Ventilation Systems

Personnel Protective Equipment

Eye/Face Protection Safety goggles with side-shields

Skin Protection Wear protective gloves/clothing

Respiratory Protection If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environment Exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

Appearance Clear Liquid

Odor No information available

Odor Threshold No information available

pH No information available

Melting Point No information available
10. Stability and Reactivity

Reactivity
No information available

Chemical Stability
Stable

Incompatible Materials

Hazardous Decomposition Products
Thermal decomposition of this product may produce carbon oxides, boron oxides and nitrogen oxides. Formaldehyde will be released when heated to 90°C. Toxic fumes of Hydrogen Chloride Gas.

Hazardous Polymerization:
Will not occur

Conditions to avoid:
Any conditions that are incompatible with water, mixing this product with incompatible chemicals. Avoid exposure to extreme heat and light.

Suggested Storage:
Store as recommended on product label.

11. Toxicological Information

Acute Toxicity
No information available

Chronic Toxicity
No adverse health effects should occur from routine, operational use of this product in the manner specified by the manufacturer’s instructions. May cause allergic response in persons with preexisting sensitivity to formaldehyde. Irritation of affected area.

Target Organ Effects
No information available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

### 12. Ecological Information

**Ecotoxicity**
Toxic to fish, daphnia and other aquatic invertebrates.

### 13. Disposal Considerations

**Waste Disposal Method**
In accordance with applicable federal, state, and local laws and regulations.

**Contaminated Packaging**
In accordance with applicable federal, state, and local laws and regulations.

### 14. Transport Information

**IATA**
Not regulated

**DOR**
Not regulated

### 15. Regulatory Information

**SARA 302 Components**
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
The following components are subject to reporting levels established by SARA Title III, Section 313.

#### Hydrochloric Acid
- **CAS-No.:** 7647-01-0
- **Revision Date:** 1993-04-24

**SARA 311/312 Hazards**
Acute Health Hazard

**Massachusetts right to know components**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
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<tr>
<td>Sodium Hydroxide</td>
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<td>2007-03-01</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
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**Pennsylvania right to know components**

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<td>2007-03-01</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>2009-07-17</td>
</tr>
<tr>
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**New Jersey right to know components**

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**California Prop. 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 16. Other Information
Issuing Date: 09-December-2011
Revision Date: 30-November-2015
Revision Note: No information available
Recommended Restrictions: No Restrictions

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.