1. Product and Company Identification

**Product Identifier**

**Product Name:** ISE Kit

**Product Code:**
- BT-6620941D (BT-6620941AD contains Boric Acid, Tetramethylammonium Hydroxide)
- BT-6620942AD contains Boric Acid, Tetramethylammonium Hydroxide)
- BT-6620940SD 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)

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

**Company**
Diamond Diagnostics Inc.
333 Fiske Street
Holliston, MA 01746

**Company Phone Number**
508-429-0450

**Email**
support@diamondddiagnostics.com

**Emergency Telephone No:**
508-429-0450

2. Hazards Identification

**GHS- Classification**

**Classification**
Flammable, Corrosive, Skin Irritant, Eye Irritant

**Hazard Statements**
- H301: Toxic if swallowed.
- H314: Causes severe skin burns and eye damage.
- H361: Suspected of damaging fertility or the unborn child.
- 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.

**P264**
Wash skin thoroughly after handling.

**P270**
Do not eat, drink or smoke when using this product.

**P273**
Avoid release to the environment.

**P280**
Use personal protective equipment as required.

**P281**
Wear protective gloves/protective clothing/eye protection/face protection.

**P301 + P310**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**P301 + P330 + P331**
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**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.

**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 supplemental first aid instructions on this label).

**P363**
Wash contaminated clothing before reuse.

**P405**
Store locked up.

**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>Boric Acid</td>
<td>233-139-2</td>
<td>01-2119486683-25-XXXX</td>
<td>10043-35</td>
<td>&lt; 5 -10%</td>
<td>Repr. 2; H361</td>
</tr>
<tr>
<td>TMAH</td>
<td>200-882-9</td>
<td>75-59-2</td>
<td>10200-1</td>
<td>&lt; 1.5%</td>
<td>Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H300, H300, H314, H411</td>
</tr>
<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; 0.2%</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>
</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>Boric Acid 10043-35-3</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not Listed</td>
</tr>
<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</td>
<td>TWA; 2.000000 mg/m3</td>
<td>C; 2.000000 mg/m3</td>
</tr>
<tr>
<td>TMAH 75-59-2</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not Listed</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; NIOSH/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
- **Freezing Point**: No information available
- **Initial Boiling Point**: Approx. 100 °C
- **Flash Point**: No information available
- **Evaporation Rate**: No information available
- **Flammability (solid, gas)**: No information available
- **Upper/Lower flammability or explosive limits**: No information available
- **Vapor pressure**: No information available
- **Vapor density**: No information available
- **Relative density**: No information available
- **Water Solubility**: No information available
- **Partition coefficient: (n-octanol/water)**: No information available
- **Auto-ignition temperature**: No information available
- **Decomposition Temperature °C**: No information available
- **Viscosity**: No information available
- **Explosive properties**: No information available
- **Oxidizing properties**: No information available
## 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information available</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>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.</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Conditions to avoid:</td>
<td>Any conditions that are incompatible with water, mixing this product with incompatible chemicals. Avoid exposure to extreme heat and light.</td>
</tr>
<tr>
<td>Suggested Storage:</td>
<td>Store as recommended on product label.</td>
</tr>
</tbody>
</table>

## 11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Chronic Toxicity</td>
<td>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.</td>
</tr>
<tr>
<td>Target Organ Effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

## 12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
<td>Toxic to fish, daphnia and other aquatic invertebrates.</td>
</tr>
</tbody>
</table>

## 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Disposal Method</td>
<td>In accordance with applicable federal, state, and local laws and regulations.</td>
</tr>
<tr>
<td>Contaminated Packaging</td>
<td>In accordance with applicable federal, state, and local laws and regulations.</td>
</tr>
</tbody>
</table>

## 14. Transport Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>DOR</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>1993-04-24</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts right to know components

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>2007-03-01</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>1993-04-24</td>
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Pennsylvania right to know components

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<th>CAS-No.</th>
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<tr>
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<td>6440-58-0</td>
<td>2007-03-01</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>2007-03-01</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>10043-35-3</td>
<td>2009-07-17</td>
</tr>
<tr>
<td>Tetramethylammonium Hydroxide</td>
<td>75-59-2</td>
<td>2007-03-01</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
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</tbody>
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New Jersey right to know components

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</tr>
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</table>

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
18-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.