

## 1. Product and Company Identification

### Product Identifier

**Product Name:** ISE Startup 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](mailto: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  
P304 + P341

P305 + P351 + P338

P308 + P313  
P310  
P321  
P337 + P313  
P342 + P311  
P363  
P390  
P403 + P233  
P405  
P406  
P501

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Immediately call a POISON CENTER or doctor/physician.  
Specific treatment (see ... on this label).  
If eye irritation persists: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material damage.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Store in corrosive resistant/... container with a resistant inner liner.  
Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on ingredients

Chemical Name	EC No.	Reach Reg. No.	CAS-No.	Weight %	Classification
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	229-222-8	Not available	6440-58-0	< 0.4% (BT-6620940SD) < 0.2% (BT-6620943D, BT-6620944D)	Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334
Sodium Hydroxide	215-185-5	01-2119457892-27-XXXX	1310-73-2	< 0.5%	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402
Boric Acid	233-139-2	01-2119486683-25-XXXX	10043-35-3	< 5-10%	Repr. 2; H361
Tetramethylammonium Hydroxide	200-882-9	Not available	75-59-2	1-5%	Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H300, H311, H314, H411
Pepsin	Not available	Not available	9001-75-6	< 0.04%	Not available
Hydrochloric Acid	231-595-7	01-2119484862-27-XXXX	7647-01-0	100%	Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H335

### 4. First Aid Measures

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

### 5. Fire-Fighting Measures

<b>Flammable Properties</b>	No information available
<b>Flash Point</b>	Not flammable
<b>Suitable Extinguishing Media</b>	Suitable for surrounding fire.
<b>Hazardous Combustion Products</b>	No information available
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and protective clothing.

## 6. Accidental Release Measures

<b>Personnel Precautions</b>	Use personnel protective equipment. Avoid inhaling, ingesting and contact with eyes and skin.
<b>Methods for Containment &amp; Cleaning</b>	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.
<b>Environmental Precautions</b>	Do not let product enter drains.

## 7. Handling and Storage

<b>Handling</b>	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.
<b>Storage</b>	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.
<b>Specific use</b>	See Section 1 – Recommended Use

## 8. Exposure Controls / Personnel

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

<b>Engineering Measures</b>	Showers Eye Wash Stations Ventilation Systems
<b>Personnel Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety goggles with side-shields
<b>Skin Protection</b>	Wear protective gloves/clothing
<b>Respiratory Protection</b>	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.
<b>Hygiene Measures</b>	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.
<b>Environment Exposure</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point</b>	No information available

<b>Freezing Point</b>	No information available
<b>Initial Boiling Point</b>	Approx. 100 °C
<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Upper/Lower flammability or explosive limits</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Relative density</b>	No information available
<b>Water Solubility</b>	No information available
<b>Partition coefficient: (n-octanol/water)</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition Temperature °C</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No information available
<b>Chemical Stability</b>	Stable
<b>Incompatible Materials</b>	Strong Oxidizers, Strong Aides, Boron Oxides, and Nitrogen Oxides. Acids, Ammonia, Metals, Oxidizable material and Chlorinated Isocyanurates. Alcohol, Alkalis, Tannins and salts of heavy metals. Bases, Amines, and Alkali Metals.
<b>Hazardous Decomposition Products</b>	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.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to avoid:</b>	Any conditions that are incompatible with water, mixing this product with incompatible chemicals. Avoid exposure to extreme heat and light.
<b>Suggested Storage:</b>	Store as recommended on product label.

## 11. Toxicological Information

<b>Acute Toxicity</b>	No information available
<b>Chronic Toxicity</b>	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.
<b>Target Organ Effects</b>	No information available
<b>Carcinogenicity</b>	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.

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

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

### Massachusetts right to know components

	CAS-No.	Revision Date:
Sodium Hydroxide	1310-73-2	2007-03-01
Hydrochloric Acid	7647-01-0	1993-04-24

### Pennsylvania right to know components

	CAS-No.	Revision Date:
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	
Sodium Hydroxide	1310-73-2	2007-03-01
Boric Acid	10043-35-3	2009-07-17
Tetramethylammonium Hydroxide	75-59-2	2007-03-01
Hydrochloric Acid	7647-01-0	1993-04-24

### New Jersey right to know components

	CAS-No.	Revision Date:
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	
Sodium Hydroxide	1310-73-2	2007-03-01
Boric Acid	10043-35-3	2009-07-17
Tetramethylammonium Hydroxide	75-59-2	2007-03-01
Hydrochloric Acid	7647-01-0	1993-04-24

### 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

<b>Issuing Date</b>	09-December-2011
<b>Revision Date</b>	30-November-2015
<b>Revision Note</b>	No information available
<b>Recommended Restrictions</b>	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.