1. Product and Company Identification

**Product Identifier**

**Product Name:** Calibration Standard 2  
**Product Code:** BK-443365D  
**Recommended Use:** For the calibration of Na+, K+, Cl-, Ca++, TCO2, BUN, Glucose, Ca++ and Creatinine.

**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

**Hazard Statements**

H227 Combustible liquid.

H301 + H311 + H331 Toxic if swallowed, in contact with skin, or if inhaled.

H314 Causes severe skin burns and eye damage.

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.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H402 Harmful to aquatic life.

**Precautionary Statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
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; 0.1%</td>
<td>Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>200-001-8</td>
<td>Not available</td>
<td>50-00-0</td>
<td>&lt; 0.03%</td>
<td>Flam. Liq 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Aquatic Acute 3; H227, H301 + H311, H314, H317, H318, H341, H350, 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
No information available

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>Formaldehyde 50-00-0</td>
<td>C; 0.300000ppm; PEL; 0.750000ppm STEL; 2.000000ppm</td>
<td>TWA; 0.016000ppm C; 0.100000ppm</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Measures

Shower
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
0°C

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
100%

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

Reactivity
No information available

Chemical Stability
Stable

Incompatible Materials
Strong acids and bases

Hazardous Decomposition Products
Formaldehyde will be released when heated to 90°C

Hazardous Polymerization:
Will not occur

Conditions to avoid:
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
May cause allergic response in persons with preexisting sensitivity to formaldehyde.

Target Organ Effects
No information available

Carcinogenicity
IARC: 1 – Group 1: Carcinogenic to humans (Formaldehyde)

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: Known to be human carcinogen (Formaldehyde)

OSHA: OSHA specifically regulated carcinogen (Formaldehyde)

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
The following components are subject to reporting levels established by SARA Title III, Section 302.

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>2007-07-01</td>
</tr>
</tbody>
</table>

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

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<th>Revision Date</th>
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<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>2007-07-01</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazards
Acute Health Hazard, Fire Hazard, Chronic Health Hazard

ECO# 7934 SOP16-4062F Rev.03 Effective Date: 04/01/16
Massachusetts right to know components
Formaldehyde

Pennsylvania right to know components
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione
Formaldehyde

New Jersey right to know components
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione
Formaldehyde

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause cancer.

16. Other Information
Issuing Date 31-December-2008
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.