1. Product and Company Identification

Product Identifier

Product Name: Glucose Reagent
Product Code: BK-671640D
(BK-671640AD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione, Ethanol, Glycerol)
(BK-671640BD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione and Formaldehyde)
Recommended Use: For measuring glucose.

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, Irritant, Toxic, Corrosive

Hazard Statements
H225: Highly flammable liquid and vapor.
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 severe 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.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/…/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
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 + P330 + P311: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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>
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<tr>
<td>Ethanol</td>
<td>200-578-6</td>
<td>Not available</td>
<td>64-17-5</td>
<td>&lt; 5%</td>
<td>Flam. Liq. 2; Eye Irrit. 2A; H225, H319</td>
</tr>
<tr>
<td>Glycerol</td>
<td>200-289-5</td>
<td>Not available</td>
<td>56-81-5</td>
<td>41%</td>
<td>Not available</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact**
Flush affected area for at least 15 minutes with water. Make sure to lift eyelids. Seek medical aid.

**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**
43°C (BK-671640AD)

**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>
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</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; 0.300000 ppm</td>
<td>PEL; 0.750000 ppm STEL; 2.000000 ppm</td>
<td>TWA; 0.016000 ppm C; 0.100000 ppm</td>
</tr>
<tr>
<td>Ethanol 64-17-5</td>
<td>TWA; 1000.000000 ppm STEL; 1000.000000 ppm</td>
<td>TWA; 1000 ppm, 1900 mg/m3</td>
<td>TWA; 1000.000000 ppm, 1900.000000 mg/m3</td>
</tr>
<tr>
<td>Glycerol 56-81-5</td>
<td>Not listed</td>
<td>TWA; 15mg/m3 TWA; 5 mg/m3</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; 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
Slight solvent odor (BK-671640AD)

Odor Threshold
No information available

pH
6 (BK-671640AD)

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
10. Stability and Reactivity

Reactivity
No information available

Chemical Stability
Stable

Incompatible Materials
Strong acids and bases, peroxides

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
Frequent and prolonged contact with the skin can cause irritation. May cause eye irritation. If ingested may cause discomfort, nausea, or vomiting. 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

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

### 15. Regulatory Information

#### SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302.
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-07-01

#### SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313.
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-07-01

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

#### Massachusetts right to know components
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-07-01
- **Ethanol**
  - CAS-No.: 64-17-5
  - Revision Date: 2007-03-01
- **Glycerol**
  - CAS-No.: 56-81-5

#### Pennsylvania right to know components
- **1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione**
  - CAS-No.: 6440-58-0
  - Revision Date: 2007-07-01
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-03-01
- **Ethanol**
  - CAS-No.: 64-17-5
  - Revision Date: 2007-03-01
- **Glycerol**
  - CAS-No.: 56-81-5

#### New Jersey right to know components
- **1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione**
  - CAS-No.: 6440-58-0
  - Revision Date: 2007-07-01
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-03-01
- **Ethanol**
  - CAS-No.: 64-17-5
  - Revision Date: 2007-03-01
- **Glycerol**
  - CAS-No.: 56-81-5

#### California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause cancer.
- **Formaldehyde**
  - CAS-No.: 50-00-0
  - Revision Date: 2007-09-28

### 16. Other Information

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>31-December-2008</th>
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<tr>
<td>Revision Date</td>
<td>30-November-2015</td>
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<tr>
<td>Revision Note</td>
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<tr>
<td>Recommended Restrictions</td>
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**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.