1. Product and Company Identification

**Product Identifier**

**Product Name:** Cal 1 Solution  
**Product Code:** IL-09831804D  
**Recommended Use:** To provide calibration points for Na+, K+, Ca++, Cl- and pH electrodes.

**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**  
Flammable, Corrosive, Irritant, Toxic, Environmentally Damaging, Health Hazard

**Hazard Statements**

- **H302** Harmful if swallowed.  
- **H314** Causes severe skin burns and eye damage.  
- **H317** May cause an allergic skin reaction.  
- **H318** Causes serious eye damage.  
- **H331** Toxic if inhaled.  
- **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
- **H335** May cause respiratory irritation.  
- **H400** Very toxic to aquatic life.  
- **H411** Toxic to aquatic life with long-lasting effects.

**Precautionary Statements**

- **P260** Do not breathe dust/fumes/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.  
- **P285** In case of inadequate ventilation wear respiratory protection.  
- **P301 + P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
- **P301 + P330 + P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
- **P303 + P361 + P353** IF ON SKIN (or hair): 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 + P310** 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.  
- **P321** Specific treatment (see … on this label).  
- **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention.  
- **P363** Wash contaminated clothing before reuse.  
- **P391** Collect spillage.  
- **P403 + P233** Store in a well ventilated place. Keep container tightly closed.  
- **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>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>247-500-7</td>
<td>Not available</td>
<td>26172-55-4</td>
<td>&lt; 0.01%</td>
<td>Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H314, H317, H334, H410</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>220-239-6</td>
<td>Not available</td>
<td>2682-20-4</td>
<td>&lt; 0.01%</td>
<td>Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; H302, H314, H317, H331, H335, H400</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

**Eye Contact**
Flush affected area with copious amount of water.

**Skin Contact**
Wash affected area with copious amounts of soap and water. If irritation persists seek medical aid.

**Inhalation**
Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Ingestion**
Rinse mouth with water, drink large quantities of water and seek medical aid.

**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 contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**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>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>26172-55-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2682-20-4</td>
<td></td>
<td></td>
<td></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

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear Liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
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</tr>
<tr>
<td><strong>Freezing Point</strong></td>
<td>0°C</td>
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<tr>
<td><strong>Initial Boiling Point</strong></td>
<td>Approx. 100 °C</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
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</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Upper/Lower flammability or explosive limits</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong>: (n-octanol/water)**</td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Decomposition Temperature °C</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>No information available</td>
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<tr>
<td><strong>Explosive properties</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td>No information available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity  

**Reactivity**  
No information available

**Chemical Stability**  
Stable

**Incompatible Materials**  
No information available

**Hazardous Decomposition Products**  
No hazardous decomposition known

**Hazardous Polymerization:**  
None

**Conditions to avoid:**  
Avoid exposure to 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.

**Target Organ Effects**  
No information available

**Carcinogenicity**  
IARC: 2A – Group 2A: Probably carcinogenic to humans (magnesium nitrate hexahydrate)

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**  
No Restrictions

**DOR**  
No Restrictions

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.

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

**Massachusetts right to know components**  

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium nitrate hexahydrate</td>
<td>13446-18-9</td>
<td>1993-04-24</td>
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Pennsylvania right to know components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Revision Date:</th>
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<tbody>
<tr>
<td>Magnesium nitrate hexahydrate</td>
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<tr>
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New Jersey right to know components

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<th>CAS-No.</th>
<th>Revision Date:</th>
</tr>
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<tr>
<td>Magnesium nitrate hexahydrate</td>
<td>13446-18-9</td>
</tr>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>26172-55-4</td>
</tr>
<tr>
<td>Magnesium chloride</td>
<td>7786-30-3</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>2682-20-4</td>
</tr>
</tbody>
</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          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.