1. Product and Company Identification

**Product Identifier**

**Product Name:** ISE Internal Reference

**Product Code:** RO-4522320D

**Recommended Use:** For the internal standardization of Na+, K+, and Cl- measurements on the ISE module.

**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.
- **H319** Causes serious eye irritation.
- **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.
- **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.
- **P275** 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 + P330** 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.
- **P304 + P341** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **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.
- **P337 + P313** If eye irritation persists: Get medical advice/attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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; 0.005%</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>
<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; 0.05%</td>
<td>Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

**Eye Contact**
Flush affected area with copious amount of water for at least 15 minutes, if irritation persists seek medical aid.

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

**Inhalation**
Remove from exposure and move to fresh air promptly. If breathing is difficult, give oxygen. Seek medical aid if cough or other symptoms appear. If not breathing, give artificial respiration and seek medical aid.

**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>
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</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Colorless Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 7</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>0°C</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>Approx. 100 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper/Lower flammability or explosive limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
</tbody>
</table>
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 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. 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

Pennsylvania right to know components

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<th>Revision Date:</th>
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<td>7732-18-5</td>
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<tr>
<td>2-Methyl-2H-isothiazol-3-one</td>
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New Jersey right to know components

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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  12-January-2016
Revision Date  21-January-2016
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.