1. Product and Company Identification

**Product Identifier**

**Product Name:** ISE Buffer

**Product Code:** OY-AUH1011D

**Recommended Use:** For the quantitative determination of Na+, K+, and Cl- concentrations in human serum and urine.

**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**

Irritant, Toxic, Health Hazard, Corrosive

**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.
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.
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 + P335  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.
P362  Take off contaminated clothing.
P370 + P378  In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.
P403 + P233  Store in a well ventilated place. Keep container tightly closed.
P403 + P235  Store in a well ventilated place. Keep cool.
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>Formaldehyde</td>
<td>200-001-8</td>
<td>Not available</td>
<td>50-00-0</td>
<td>&lt; 0.5%</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>
<tr>
<td>Triethanolamine</td>
<td>203-049-8</td>
<td>Not available</td>
<td>102-71-6</td>
<td>&lt; 5.0%</td>
<td>Not available</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact**
Flush affected area with copious amounts 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. Seek 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 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 formation of dust aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions see section 2.2.

**Storage**
Keep container closed in a dry and well-ventilated place.

**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>Formaldehyde</td>
<td>C; 0.300000ppm;</td>
<td>PEL; 0.750000ppm</td>
<td>TWA; 0.016000ppm</td>
</tr>
<tr>
<td></td>
<td>STEL; 2.000000ppm</td>
<td></td>
<td>C; 0.100000ppm</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>TWA; 5.000000 mg/m3</td>
<td>Not listed</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; 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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear 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>No information available</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>Not flammable</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>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No information available</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature °C</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</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
Formaldehyde, Carbon Monoxide

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
Irritation of exposed area. Mucous membrane irritation

Target Organ Effects
No information available

Carcinogenicity

IARC: 1 – Group 1: Carcinogenic to humans (Formaldehyde). 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Triethanolamine)

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
No information available

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.

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

Triethanolamine 102-71-6 1993-04-24

Pennsylvania right to know components
Forwarddehyde 50-00-0 2007-07-01
Triethanolamine 102-71-6 1993-04-24

New Jersey right to know components
Forwarddehyde 50-00-0 2007-01-01
Triethanolamine 102-71-6 1993-04-24

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause cancer.
Forwarddehyde 50-00-0 2007-09-28

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.