1. Product and Company Identification

**Product Identifier**

**Product Name:** ISE High Serum Standard

**Product Code:** OY-AUH1015D

**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 + 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.
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; 0.01%</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 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**
Not flammable

**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

**Further Information**
No information available

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; STEL: 2.000000ppm</td>
<td>TWA: 0.016000ppm; C: 0.100000ppm</td>
</tr>
<tr>
<td>50-00-0</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>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>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>
<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: (n-octanol/water)</td>
<td>No information available</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information available</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>No information available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Formaldehyde, Carbon Monoxide</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>Will not occur</td>
</tr>
</tbody>
</table>
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)

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

Pennsylvania right to know components

Formaldehyde CAS-No. 50-00-0
Revision Date: 2007-07-01

New Jersey right to know components

Formaldehyde CAS-No. 50-00-0
Revision Date: 2007-07-01

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
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.