Material Safety Data Sheet

**Schistosoma**

**Manufacturer:** Diagnostic Automation, Inc.
21250 Califa Street, Suite 102 & 116,
Woodland Hills, CA 91367 USA

**Phone Number:** (818) 591-3030

**Product Name:** Schistosoma Microwell Serum ELISA
**Catalog No.:** 8209-35

**Product Type:** For the qualitative screening of serum IgG antibodies to *Schistosoma* using an Enzyme Linked Immunoabsorbant Assay (ELISA) technique.

**Hazard Identification**

<table>
<thead>
<tr>
<th></th>
<th>Thimerosal</th>
<th>Phosphoric</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1mg/m Acid</td>
</tr>
<tr>
<td>0.1mg/m</td>
<td>1mg/m</td>
<td></td>
</tr>
</tbody>
</table>

**Time Weight Averages**

- **Thimerosal:** 8-hours for OSHA 3-hours for ACGIH

**HMIS**

<table>
<thead>
<tr>
<th>Health Hazard-2 Fire Hazard-1 Reactivity Hazard-0</th>
</tr>
</thead>
</table>

* Additional chronic hazards are present
## Chemical Characterization

<table>
<thead>
<tr>
<th>Product</th>
<th>Hazardous Chemicals</th>
<th>CAS No.</th>
<th>%</th>
<th>R-Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate/Strips</td>
<td>Animal Protein</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Enzyme Conjugate</td>
<td>Thimerosal</td>
<td>54-64-8</td>
<td>0.5%</td>
<td>R20/21/22, 25, 33, 36/37/38, 53</td>
</tr>
<tr>
<td>Positive Control</td>
<td>Thimerosal</td>
<td>50-00-0</td>
<td>0.2-0.5%</td>
<td>R20/21/22, 25, 33, 36/37/38, 53</td>
</tr>
<tr>
<td>Negative Control</td>
<td>Thimerosal</td>
<td>50-00-0</td>
<td>0.2-0.5%</td>
<td>R20/21/22, 25, 33, 36/37/38, 53</td>
</tr>
<tr>
<td>Chromogen</td>
<td>Tetramethylbenzidine</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>20X Wash Concentrate</td>
<td>Thimerosal</td>
<td>54-64-8</td>
<td>1%</td>
<td>R20/21/22, 25, 33, 36/37/38, 53</td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Thimerosal</td>
<td>50-00-0</td>
<td>0.2-0.5%</td>
<td>R20/21/22, 25, 33, 36/37/38, 53</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>5%</td>
<td>R34</td>
</tr>
</tbody>
</table>

### R-Phrases:

- **R20/21/22**: Harmful by inhalation, in contact with skin and if swallowed
- **R25**: Toxic if swallowed
- **R33**: Danger of cumulative effects
- **R34**: Causes burns
- **R36/37/38**: Irritating to eyes, respiratory system and skin
- **R53**: May cause long-term adverse effects in aquatic environment

## First Aid Measures

### Inhalation: If inhaled, remove person to fresh air. If person is not breathing, give artificial respiration. If person is having difficulty breathing, give oxygen. Get medical attention.

### Ingestion: If swallowed and person is conscious, rinse mouth with water. Never give anything, by mouth, to an unconscious person. Get medical attention.

### Skin Contact: In case of skin contact, flush skin with water for 15 minutes. Remove
contaminated clothing and shoes. Get medical attention.

**Eye Contact:** In case of eye contact, check for and remove and contact lenses. Flush eyes with water for 15 minutes. Get medical attention.

**European Safety Phrases:**

<table>
<thead>
<tr>
<th>Thimerosal</th>
<th>Phosphoric Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2, S13, S26, S28, S36, S37, S45</td>
<td>S26, S36, S37, S39, S45</td>
</tr>
</tbody>
</table>

S2  Keep out of reach of children.
S13  Keep away from food, drink and animal feeding stuffs.
S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28  After contact with skin, wash immediately with plenty of water.
S36  Wear suitable protective clothing.
S37  Wear suitable gloves.
S39  Wear suitable eye/face protection.
S45  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Fire Fighting Measures**

**Flashpoint:**
Thimerosal: Closed cup, >250°C

**Extinguishing Media:**
Phosphoric Acid: Carbon dioxide, dry chemical powder, or appropriate foam
Thimerosal: Small fire, use dry chemical powder. Large fire, use water spray, fog or foam. Do not use water jet.

**Special Fire Procedures:** None required

**Unusual Fire and Explosion Hazards:**
Thimerosal: as most organic solids, fire is possible at elevated temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.
**Hazardous Combustion Products:**
Thimerosal: Carbon oxides (CO, CO$_2$). Some metallic oxides.

**Accidental Release Measures:**

**Instructions:** Wear gloves and absorb. Place into a hazardous waste container for waste disposal.

**Handling and Storage**

**Handling:** No special requirements but use standard laboratory practices.

**Storage:** Refer to products label and/or directions for use.

**Exposure Controls/Personal Protection:**

Normal laboratory practices in the handling of specimens is sufficient, practices will limit exposure if used correctly.

**Physical and Chemical Properties:**

**Physical State:** Liquid

**Color:** Various

**Solubility:** Not applicable

**Flash Point:** Not Applicable

**Boiling Point:** No data available

**pH:** Stop solution is very acidic

**Stability and Reactivity**

**Incompatibility:**
Thimerosal: Reactive with oxidizing agents, acids, and alkalis.

**Hazardous Polymerization:** None

**Toxicological Information:**

**Target Organs:** Kidneys, central nervous system, heart, bone marrow, blood, liver, and eyes.

**Primary Routes of Entry:** Inhalation, ingestion, skin or eye contact.

**Toxicity**

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<tr>
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<tbody>
<tr>
<td>Oral, rat: LD$_{50}$</td>
<td>75 mg/kg</td>
<td>1530 mg/kg</td>
</tr>
<tr>
<td>IARC:</td>
<td>Group 3</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Ecological Information**

<table>
<thead>
<tr>
<th></th>
<th>Thimerosal</th>
<th>Acid</th>
</tr>
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<tbody>
<tr>
<td>RTECS#:</td>
<td>OV8400000</td>
<td>TB6300000</td>
</tr>
</tbody>
</table>

**Disposal Consideration:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Transportation Information:**

**Department of Transportation (DOT):** Small quantities.

**International Air Transport Associations (IATA):**

Thimerosal: Mercury compound, solid, n.o.s. (Thimerosal) UN: NA2025 PG: III

Phosphoric Acid: liquid, UN: 1805 PG III

**International Maritime Dangerous Goods (IMDG):** Not regulated

**Regulatory Information:**
**California Proposition 65:** This product contains chemical(s) known to the State of California to cause cancer and/or birth defects.

**Other:** To the best of our knowledge, the information contained here in is accurate. Diagnostic Automation Inc, assumes no liabilities for accuracy or completeness of the information contained herein.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>2016-05-18</th>
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<tr>
<td>REF 8209-35</td>
<td>DA-Schistosoma</td>
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**CORTEZ DIAGNOSTCS, INC.**
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ISO 2003

Revision Date: 2007-11-06