1. Product & Company Information

Manufacturer: InBios International, Inc.
562 First Ave. South, Ste. 600
Seattle, WA 98104 USA

Information Phone Number: 206-344-5821
Hours: Mon. to Fri. 8:30-5
Emergency Number: 206-344-5821

Catalog Number(s): DDMS-1
Product Name: DENV Detect™ IgM Capture ELISA
Synonyms: N/A
Formula: N/A
Molecular Weight: N/A

2. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>SARA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Coated Microtiter Strips for Human IgM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. DENV Sample Dilution Buffer, pH 7.2-7.6</td>
<td>1185-53-1</td>
<td>No</td>
</tr>
<tr>
<td>Tris-HCl Buffered Solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tween 20 (≤0.05%)</td>
<td>9005-64-5</td>
<td>No</td>
</tr>
<tr>
<td>Proclin (≤0.05%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Dengue IgM Positive Control (heat inactivated)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positive serum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proclin (0.05%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Dengue IgM Negative Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative serum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Ready to Use Dengue Recombinant antigen for IgM, pH 7.2-7.6</td>
<td>1185-53-1</td>
<td>No</td>
</tr>
<tr>
<td>Tris-HCl Buffered Solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tween 20 (≤0.05%)</td>
<td>9005-64-5</td>
<td>No</td>
</tr>
<tr>
<td>Proclin (≤0.05%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G418 Sulphate (0.0025-0.004%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Ready to Use Normal Cell Antigen (NCA) for Dengue IgM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tris-HCl Buffered Solution</td>
<td>9005-64-5</td>
<td>No</td>
</tr>
<tr>
<td>Tween 20 (≤0.05%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proclin (≤0.05%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Ready to Use Enzyme Conjugate-HRP for Dengue IgM, pH 7.2-7.6</td>
<td>9005-64-5</td>
<td>No</td>
</tr>
<tr>
<td>Tris based buffered solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tween 20 (≤0.05%)</td>
<td>54-64-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Thimerosal (0.01%)</td>
<td></td>
<td></td>
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</tbody>
</table>
8. 10X Wash Buffer, pH 6.7-7.1  
Phosphate buffered saline (10X)  
Tween 20 (1.0%)  
9005-64-5  
No

9. EnWash, pH 7.2-7.6  
Phosphate buffered saline  
Tween 20 (<0.05%)  
9005-64-5  
No

10. Liquid TMB Substrate, pH 3.3-3.8  
3,3',5,5'-Tetramethylbenzidine (<0.05%)  
Hydrogen peroxide (<0.05%)  
Citric-acid citrate buffer  
54827-17-7  
No  
7722-84-1  
No

11. Stop Solution  
Sulfuric Acid, aqueous (1N)  
Corrosive  
7664-93-9  
No

3. Hazard Identification

Emergency Overview

Additional Toxicity information is Section 11.

Potential Health Effects (Acute and Chronic)

Inhalation: May be irritating to mucous membranes and respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin Contact: May be irritating to skin. Sulfuric acid causes severe burns.

Eye Contact: May be irritating to eyes. Sulfuric acid causes sever burns.

Aggravated Medical Conditions by Exposure: No information found.

Carcinogenicity: High levels of exposure to sulfuric acid mists and mercury compounds have shown carcinogenic effects.

Sensitization: No information found.

4. First Aid Measures

Emergency First Aid

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Inhalation  Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion  Wash out mouth with water provided person is conscious; get immediate medical attention.

Skin  Immediately flush thoroughly with large amounts of water. Remove contaminated clothing and wash before reuse. Seek medical attention.
5. Fire Fighting Measures

Extinguishing Media
Use dry chemical powder.

Fire Fighting Procedures
Wear self-contained breathing apparatus and protective clothing.

Fire & Explosion Hazards
Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Spill Response
Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Contain the release and eliminate its source, if this can be done without risk. Spill material should be disposed of accordingly (see Section 12). Comply with all Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

7. Handling and Storage

Handling
Avoid inhalation and contact with skin, eyes, and clothing. Avoid prolonged and repeated exposure. Components containing human serum must be treated as biohazardous and handled following Universal Precautions.

Storage
Keep container tightly closed and protected against physical damage. Store under appropriate conditions away from incompatible chemicals.

8. Exposure Controls and Personal Protection

Safety Equipment
Safety showers and eye wash station.

Personal Protective Equipment
Engineering and/or administrative controls should be implemented to reduce exposure. Protective gloves must be worn to prevent skin contact. Safety glasses with side shields must be worn at all times. Impervious protective clothing should be worn to prevent skin contact.

Work and Hygiene Practices
Wash thoroughly after handling. Wash contaminated clothing before reuse.
Exposure Guidelines

**OSHA - PEL:**

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>STEL</th>
<th>CL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PPM MG/M3</td>
<td>PPM MG/M3</td>
<td>PPM MG/M3</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACGIH - TLV:**

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>STEL</th>
<th>CL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PPM MG/M3</td>
<td>PPM MG/M3</td>
<td>PPM MG/M3</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.1</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

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9. Physical and Chemical Properties

- **Boiling Point (C 760 mmHg):** N/A
- **Melting Point (C):** N/A
- **Specific Gravity (H₂O = 1):** N/A
- **pH:** See Section 2.
- **Flash Point (F):** N/A
- **Flammable Limits LEL (%):** N/A
- **Flammable Limits UEL (%):** N/A
- **Vapor Pressure (mm Hg):** N/A
- **Percent Volatile by vol (%):** N/A
- **Vapor Density (Air = 1):** N/A
- **Evaporation Rate (BuAc = 1):** N/A
- **Solubility in Water:** N/A
- **Appearance:** N/A

N/A = Not Available

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10. Stability and Reactivity

**Stability**

- Stable: Stable
- **Incompatibilities:** Strong oxidizing agents, bases, brass, iron, finely powdered metals

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Conditions to Avoid: Incompatibilities

Hazardous Polymerization

Hazardous polymerization will not occur.

Hazardous Decomposition

Carbon dioxide, Carbon monoxide, Sulfur oxide, Hydrogen sulfide, Mercury, Mercury oxides, Nitrogen oxides

11. Toxicological Information

Oral Rat LD50 N/A
Inhalation Rat LD50 N/A
Skin Rabbit LD50 N/A

12. Ecological Considerations

No data available.

13. Disposal Considerations

Contact a licensed professional waste disposal company for disposal of this material. Precious metals should be recovered. Observe all federal, state, and local environmental regulations.

14. Transportation Information

DOT

Proper Shipping Name: None
This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None
This substance is considered non-hazardous for transport.

15. Regulatory Information

<table>
<thead>
<tr>
<th>Component</th>
<th>SARA TPQ (lbs)</th>
<th>SARA DeMininis (%)</th>
<th>CERCLA RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury compound</td>
<td>10</td>
<td>No Exemption</td>
<td>1</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td></td>
<td></td>
<td>1000</td>
</tr>
</tbody>
</table>

If there is no information listed on the regulatory information chart, this indicates that the chemical is not
covered by the specific regulation listed.

16. Other Information

Comments
None

NFPA Hazard Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Reactivity</td>
<td>N/A</td>
</tr>
<tr>
<td>Special Hazards</td>
<td>N/A</td>
</tr>
</tbody>
</table>

N/A = Not Available  
N/E = None Established

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