Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Mouse Resolvin E1 ELISA Kit

**Catalog number:** MBS755469

**Recommended use:** The measurement of the protein level in biological samples, the components of this kit including reagents, calibrators are all well packaged for final use. This kit is designed to use in research purpose, not for use in diagnostic or therapeutic procedures.

**Company:** MyBioSource, Inc.
P.O.Box 153308
San Diego, CA 92195-3308 USA
Tel: 1.858.633.0165/Fax: 1.858.633.0166
Email: sales@mybiosource.com
Emergency: Call 911 in the USA or Contact your local emergency.

2. HAZARDOUS INGREDIENTS:

**Sulfuric Acid**
A vial of stop solution 6ml containing 5% Sulfuric Acid

**GHS Classification:**
- Corrosive to metals
- Skin corrosion (Category 1A)
- Serious eye damage (Category 1)
- Acute aquatic toxicity (Category 3)

**GHS Statements**

Hazard statement(s):
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.

Precautionary statement(s): 
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear eye protection, face protection.
P280 Wear protective gloves.
P302+ P352 IF ON SKIN: Wash with plenty of soap and water.
P305+ P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+ P313 If skin irritation occurs: Get medical advice/attention.
P337+ P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS:</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTIBODY COATED MICROTITER PLATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Affinity Purified Rabbit Antibody</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Established</td>
<td>&lt;100ug</td>
<td>Not classified None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: STANDARDS: 6vails, 0.5ml/vial</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artificial synthesis</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Established</td>
<td>&lt;0.1%</td>
<td>Not classified None</td>
</tr>
<tr>
<td>Distilled Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Not Listed</td>
<td>&gt;90%</td>
<td>Not classified None</td>
</tr>
<tr>
<td>Bovine Serum Albumine</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Established</td>
<td>&lt;0.1%</td>
<td>Not classified None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: PROTOCOL</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProCline 300 Preservative</td>
<td>55965-84-9</td>
<td>Not Listed</td>
<td>613-167-00-05</td>
<td>&lt;0.1%</td>
<td>Irritant Hazard Phrases: H302, H314, H317, H332, H410 Precaution Phrases: P273, P280, P305 + P351 + P338, P310, P501</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: ENZYME CONJUGATE 6ml</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRP conjugate antigen</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Established</td>
<td>&lt;100ug</td>
<td>Not classified None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: WASHER BUFFER 10ml</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris Hydrochloride</td>
<td>1185-53-1</td>
<td>214-684-5</td>
<td>Not Listed</td>
<td>&lt;1.0%</td>
<td>Not classified None</td>
</tr>
</tbody>
</table>

---

*FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.*
<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: TMB SUBSTRATE SOLUTION</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destilled Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Not Listed</td>
<td>&gt;95%</td>
<td>Not classified None</td>
</tr>
<tr>
<td>TMB</td>
<td>54827-17-7</td>
<td>259-364-6</td>
<td>Not Listed</td>
<td>&lt;0.01%</td>
<td>Concentration is too low.</td>
</tr>
<tr>
<td>H2O2</td>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>Not Listed</td>
<td>0.003%</td>
<td>Concentration is too low</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: STOP SOLUTION 6ml</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distilled water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Not Listed</td>
<td>95%</td>
<td>Not classified None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS: BALANCE SOLUTION 6ml</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>ICSC#</th>
<th>Amount</th>
<th>Hazard Classification; Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distilled water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Not Listed</td>
<td>&gt;95%</td>
<td>Not classified None</td>
</tr>
<tr>
<td>NP-40 Lysis Buffer</td>
<td>9016-45-9</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>1%</td>
<td>HS-No: 34021300900 Hazard Symbols: Xn, N (Harmful, Dangerous for the environment)</td>
</tr>
</tbody>
</table>

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
4. FIRST AID MEASURES

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact
Wash off immediately with soap and plenty of water while Removing all contaminated clothes and shoes.

Inhalation
Move to fresh air.

Ingestion
Clean mouth with water. Drink plenty of water.

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties
Not flammable.

Flash point
not determined

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Explosion Data
Not available

Sensitivity to Mechanical
None.

Sensitivity to StatiDischarge
None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (Approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions
Try to prevent the material from entering drains or water courses.

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric acid</td>
<td>TWA: 0.2 mg/m³ thoracic fraction</td>
<td>(vacated) TWA: 1 mg/m³</td>
<td>IDLH: 15 mg/m³ TWA: 1 mg/m³</td>
</tr>
<tr>
<td>7664-93-9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Exposure guidelines**: This product does not contain any hazardous materials with occupational exposure limits.

**Exposure controls**: Ensure good ventilation. Avoid, if possible, direct contact with the product. An emergency shower and/or an eye bath should be available in the workplace.

**Engineering measures**: Showers, Eyewash stations, Ventilation systems

**Eye/face protection**: Use chemical safety goggles where splashing is possible.

**Skin and body protection**: Chemical resistant gloves (butyl rubber, PE or PVC) may be used if risk of direct contact may occur.

**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 for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Handle in accordance with good industrial hygiene and safety practice.

**Hygiene measures**

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</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>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content(%)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless</td>
</tr>
<tr>
<td>Physical State @20°C</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point.boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>no data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Stability**: Stable under recommended storage conditions.

*FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.*
Incompatible products: Attack many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

Conditions to avoid: None known based on information supplied.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION (Sulfuric Acid)

Acute toxicity
LD50 Oral, Rat, Dose 2140 mg/kg

Irritation
Eyes – Severe irritant, Rabbit, Exposure 250 Micrograms.

Sensitization
Eyes – Severe irritant, Rabbit, 0.5 minutes 5 milligrams.

Carcinogenicity
Not available

Repeated dose toxicity
Not available

Mutagenicity
Not available

Toxicity for reproduction
Not available

Eye contact: Causes serious eye damage

Potential acute health effects
Inhalation: No known significant effects or critical hazards.
Skin contact: Causes skin irritation.
Ingestion: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Toxicity: Sulphuric acid 96%: LC50 (fish, 96h) 42 mg/L (mosquito fish) EC50 (daphnia, 48h) >29 mg/L

13. DISPOSAL CONSIDERATION

Waste Disposal:

These reagents contain no substances which at their given concentration are not the hazardous wastes according to Federal regulations (40CFR 261). There might be a plastic plate with rests of blood which can be allotted an EWC-code 18 01 03 Wastes from natural care, diagnosis, treatment on prevention of disease in humans, waste whose collection and disposal is subject to special requirements in view of prevention of infection.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.
14. TRANSPORT INFORMATION

Regulatory information ADR/RID / IMDG / IATA Not regulated

15. OTHER INFORMATION

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a 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 materials or in any process, unless specified in the text.

Date of revision: May 9, 2023