SAFETY DATA SHEET
Interleukin-1.beta. (human) AChE-FAb' Conjugate

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Code: 483310
Product Name: Interleukin-1.beta. (human) AChE-FAb' Conjugate
Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information
Company Name: Cayman Chemical Company
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887
Information: Cayman Chemical Company +1 (734)971-3335
Web site address: www.caymanchem.com

2. Hazards Identification

GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.
GHS Precaution Phrases: No data available.
GHS Response Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.
GHS Storage and Disposal Phrases: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection
Potential Health Effects (Acute and Chronic): Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.
Target Organs: No data available.
Signs and Symptoms Of Exposure: To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
Medical Conditions Generally Aggravated By Exposure: No data available.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interleukin-1.beta. (human) AChE-FAb' Conjugate</td>
<td>NA</td>
<td>99.99 %</td>
<td>NA</td>
<td>No phrases apply.</td>
<td>NA</td>
</tr>
<tr>
<td>2. Sodium azide</td>
<td>26628-22-8</td>
<td>0.01 %</td>
<td>247-852-1</td>
<td>R28-32-50/53</td>
<td>VY8050000</td>
</tr>
</tbody>
</table>

4. First Aid Measures

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
5. Fire Fighting Measures

**Suitable Extinguishing Media:**
- Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
- Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:**
- A solid water stream may be inefficient.

**Flammable Properties and Hazards:**
- No data available.

**Flash Pt:**
- No data.

**Autoignition Pt:**
- No data available.

**Explosive Limits:**
- LEL: No data.  UEL: No data.

**Hazardous Combustion Products:**
- No data available.

**Fire Fighting Instructions:**
- As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

**Protective Precautions, Protective Equipment and Emergency Procedures:**
- Avoid raising and breathing dust, and provide adequate ventilation.
- As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
- Take steps to avoid release into the environment, if safe to do so.

**Environmental Precautions:**
- Contain spill and collect, as appropriate.
- Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

**Precautions To Be Taken in Handling:**
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.

**Precautions To Be Taken in Storing:**
- Keep container tightly closed.
- Store in accordance with information listed on the product insert.

**Hazard Label Information:**
- Avoid contact with skin and eyes.  Do not reuse this container.  Use with adequate ventilation.
- Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interleukin-1.beta. (human) AChE-FAb' Conjugate</td>
<td>NA</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>No data.</td>
<td>CEIL: 0.29 mg/m³</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interleukin-1.beta. (human) AChE-FAb' Conjugate</td>
<td>NA</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>TWA: 0.1 mg/m³ (STEL: 0.3 mg/m³)</td>
<td>TWA: 0.1 mg/m³ (STEL: 0.3 mg/m³)</td>
<td>TWA: 0.1 mg/m³ (STEL: 0.3 mg/m³)</td>
</tr>
</tbody>
</table>

**Protective Equipment Summary - Hazard Label Information:**
- Compatible chemical-resistant gloves
- Eye wash station in work area
- Lab coat
- Safety glasses
- Safety shower in work area
- Vent Hood

**Engineering Controls (Ventilation etc.):**
- Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Eye Protection:**
- Safety glasses

**Protective Gloves:**
- Compatible chemical-resistant gloves
9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [ X ] Solid

Appearance and Odor: A lyophilized powder

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

Other Information

Percent Volatile: No data.

10. Stability and Reactivity

Reactivity: No data available.

Stability: Unstable [ ] Stable [ X ]

Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Conditions To Avoid: No data available.

Polymerization: No data available.

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

11. Toxicological Information

Toxicological Information: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interleukin-1.beta. (human) AChE-FAB' Conjugate</td>
<td>NA</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Sodium azide</td>
<td>26628-22-8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>A4</td>
<td>n.a.</td>
</tr>
</tbody>
</table>
12. Ecological Information

**General Ecological Information:** Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

14. Transport Information

**LAND TRANSPORT (US DOT)**

DOT Proper Shipping Name
Not dangerous goods.

**LAND TRANSPORT (European ADR/RID)**

ADR/RID Shipping Name
Not dangerous goods.

**AIR TRANSPORT (ICAO/IATA)**

ICAO/IATA Shipping Name
Not dangerous goods.

**Additional Transport Information:**
Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

**European Community Hazard Symbol codes**

No data available.

**European Community Risk and Safety Phrases**

S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.

**US EPA SARA Title III**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interleukin-1.beta. (human) AChE-FAb’ Conjugate</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Sodium azide</td>
<td>26628-22-8</td>
<td>Yes 500 LB</td>
<td>Yes 1000 LB</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Other US EPA or State Lists**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP,ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interleukin-1.beta. (human) AChE-FAb’ Conjugate</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Sodium azide</td>
<td>26628-22-8</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

**Regulatory Information Statement:**

16. Other Information

**Revision Date:** 01/29/2013

**Company Policy or Disclaimer**

For research use only, not for human or veterinary use.

**DISCLAIMER:** This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required