Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 10004344
Product Name: Prostaglandin D Synthase (lipocalin-type; mouse) Polyclonal Antibody
Synonyms: L-PGDS; Lipocalin-PGDS;

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet
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

Section 2. Hazards Identification

GHS Classification

<table>
<thead>
<tr>
<th>Skin Corrosion/Irritation, Category 2</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes skin irritation</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes skin irritation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Serious Eye Damage/Eye Irritation, Category 2A</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes serious eye irritation</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Target Organ Systemic Toxicity (single exposure), Category 3</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>May cause respiratory irritation, or may cause drowsiness and dizziness</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>May cause respiratory irritation, or may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute Toxicity: Oral, Category 5</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Warning</td>
<td>May be harmful if swallowed</td>
<td></td>
</tr>
</tbody>
</table>

GHS Hazard Phrases:
- H315: Causes skin irritation.
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation.
- H303: May be harmful if swallowed.

GHS Precaution Phrases:
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

GHS Response Phrases:
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P332+313: If skin irritation occurs, get medical advice/attention.
- P362: Take off contaminated clothing and wash before re-use.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313: If eye irritation persists, get medical advice/attention.
- P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms:
Causes skin and serious eye irritation.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
SAFETY DATA SHEET
Prostaglandin D Synthase (lipocalin-type; mouse)
Polyclonal Antibody

Target Organs:
No data available.

LD 50 / LC 50:
Please refer to Section 11.

Medical Conditions Generally Aggravated By Exposure:
No data available.

Section 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. Prostaglandin D Synthase (lipocalin-type; mouse) Polyclonal Antibody</td>
<td>NA</td>
<td>&lt; 9.16 %</td>
<td>NA</td>
<td>No phrases apply.</td>
<td>NA</td>
</tr>
<tr>
<td>2. Trizma base</td>
<td>77-86-1</td>
<td>&lt;25.0 %</td>
<td>201-064-4</td>
<td>R36/37/38</td>
<td>TY2900000</td>
</tr>
<tr>
<td>3. Sodium chloride</td>
<td>7647-14-5</td>
<td>&lt;66.0 %</td>
<td>231-598-3</td>
<td>R36</td>
<td>VZ4725000</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

4.1.1 In Case of Inhalation:
Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 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.

4.1.3 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.

4.1.4 In Case of Ingestion:
Ingestion may cause: dehydration, diarrhea, gastrointestinal disturbances, nausea, and vomiting.

4.2 Important Symptoms and Effects, Both Acute and Delayed:
No data available.

4.3 Indication of any immediate medical attention and special treatment needed:
No data available.

Section 5. Fire Fighting Measures

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

5.2 Flammable Properties and Hazards:
No data available.

Flash Pt: No data.
Autoignition Pt: No data available.
Explosive Limits: LEL: No data. UEL: No data.

5.3 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.

Section 6. Accidental Release Measures

6.1 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).

6.2 Environmental Precautions:
Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up:
Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.
Section 7. Handling and Storage

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

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

Section 8. Exposure Controls/Personal Protection

7.2 Precautions To Be Taken in Storing:
- Avoid contact with skin and eyes.
- Do not reuse this container.
- Use with adequate ventilation.
- Wash thoroughly after handling.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prostaglandin D Synthase (lipocalin-type; mouse) Polyclonal Antibody</td>
<td>NA</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>Trizma base</td>
<td>77-86-1</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Section 9. Physical and Chemical Properties

9.1 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.
SAFETY DATA SHEET
Prostaglandin D Synthase (lipocalin-type; mouse)
Polyclonal Antibody

10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable [ ] Stable [ X ]
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.
10.4 Conditions To Avoid: No data available.
10.5 Polymerization: Will occur [ ] Will not occur [ X ]
10.6 Incompatibility - Materials To Avoid: strong oxidizing agents
carbon dioxide
carbon monoxide
hydrogen chloride gas
nitrogen oxides
sodium oxides

Section 11. Toxicological Information

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

Sodium chloride - Toxicity Data: Oral LDLO (man): 1,000 mg/kg; Oral LD50 (mouse): 4,000 mg/kg; Oral LD50 (rat): 3,000 mg/kg;

Trizma base - Toxicity Data: Oral LDLO (rabbit): 1,000 mg/kg; Oral TDLO (mouse): 3,000 mg/kg; Oral LD50 (mouse): 5,000 mg/kg; Oral TDLO (rat): 3,000 mg/kg;

Chronic Toxicological Effects: Trizma base - Investigated as a reproductive effector.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
See actual entry in RTECS for complete information.

Sodium chloride RTECS Number: VZ4725000
Trizma base RTECS Number: TY2900000

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

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

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)
DOT Proper Shipping Name Not dangerous goods.
SAFETY DATA SHEET
Prostaglandin D Synthase (lipocalin-type; mouse)
Polyclonal Antibody

14.1 LAND TRANSPORT (European ADR/RID)
ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)
ICAO/IATA Shipping Name Not dangerous goods.
Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

European Community Risk and Safety Phrases
R36/37/38 - Irritating to eyes, respiratory system and skin.
S22 - Do not breathe dust.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

US EPA SARA Title III
Hazardous Components (Chemical Name) Prostaglandin D Synthase (lipocalin-type; mouse) Polyclonal Antibody
CAS # NA
Sec.302 (EHS) No
Sec.304 RQ No
Sec.313 (TRI) No
Sec.110 No

Other US EPA or State Lists
Hazardous Components (Chemical Name) Prostaglandin D Synthase (lipocalin-type; mouse) Polyclonal Antibody
CAS # NA
CAA HAP,ODC No
CWA NPDES No
TSCA No
CA PROP.65 No


Section 16. Other Information

Revision Date: 04/24/2013

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