### Section 1. Identification of the Substance/Mixture and of the Supplier of the Safety Data Sheet

1.1 **Product Code:**

   **Product Name:**

   **Synonyms:**

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:**

   **Alternate Emergency Contact:**

   **Information:** Cayman Chemical Company

   **Web site address:** www.caymanchem.com

### Section 2. Hazards Identification

<table>
<thead>
<tr>
<th>GHS Classification</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS hazard phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Oral, Category 5</td>
<td>none</td>
<td>Warning</td>
<td>May be harmful if swallowed</td>
</tr>
<tr>
<td>Toxic To Reproduction, Category 1B</td>
<td>Health hazard</td>
<td>Danger</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>Aquatic Toxicity (Acute), Category 2</td>
<td>none</td>
<td></td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

**GHS Hazard Phrases:**

- H303: May be harmful if swallowed.
- H360: May damage fertility or the unborn child.
- H401: Toxic to aquatic life.

**GHS Precaution Phrases:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P281: Use personal protective equipment as required.
- P273: Avoid release to the environment.

**GHS Response Phrases:**

- P312: Call a {POISON CENTER/doctor/...} if you feel unwell.
- P308+313: IF exposed or concerned: Get medical attention/advice.

**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:**

- 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.
- May damage fertility or the unborn child.
- Toxic to aquatic life.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Celecoxib</td>
<td>169590-42-5</td>
<td>100.0 %</td>
<td>NA</td>
<td>R52-60-61</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: No data available.

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.

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

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.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.
Section 8. Exposure Controls/Personal Protection

<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>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>France VL</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Celecoxib</td>
<td>169590-42-5</td>
<td>No data.</td>
<td>No data.</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

**Other Protective Clothing:**
- Lab coat

**Respiratory Equipment (Specify Type):**
- NIOSH approved respirator, as conditions warrant.

**Work/Hygienic/Maintenance Practices:**
- Do not take internally.
- Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
- Wash thoroughly after handling.

## 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 crystalline solid

**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.

**Solubility Notes:**
- ~0.2 mg/ml in 1:4 EtOH:PBS (pH 7.2); ~25 mg/ml in EtOH & DMF; ~16.6 mg/ml in DMSO;

**Autoignition Pt:**
- No data.

**Explosive Properties:**
- No data available.

**Oxidizing Properties:**
- No data available.

### 9.2 Other Information

**Percent Volatile:**
- No data.

**Formula:**
- C17H14F3N3O2S

**Molecular Weight:**
- 381.40

## Section 10. Stability and Reactivity

### 10.1 Reactivity:
- No data available.

### 10.2 Stability:
- Unstable [ ]
- Stable [X]
Stable if stored in accordance with information listed on the product insert.

No data available.

Will occur [    ]  Will not occur [ X ]

No data available.

carbon dioxide  
carbon monoxide  
hydrogen fluoride  
nitrogen oxides  
sulfur oxides

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

Celecoxib - Toxicity Data: Oral TDLo (human): 5.71 mg/kg; Oral TDLo (rat): 0.1 mg/kg; Oral TDLo (mouse): 5 mg/kg; Skin TDLo (mouse): 15.3 mg/kg;

Celecoxib - Investigated as a tumorigen.

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

Celecoxib RTECS Number: DB2944937

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

Dispose in accordance with local, state, and federal regulations.

Not dangerous goods.

Not dangerous goods.

Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Xn: Harmful

- Harmful to aquatic organisms.  
- May impair fertility.  
- May cause harm to the unborn child.  
- Do not breathe dust.  
- Avoid contact with skin and eyes.  
- Wear suitable protective clothing, gloves and eye/face protection.  
- In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)  
- Avoid exposure - obtain special instructions before use.

US EPA SARA Title III
# SAFETY DATA SHEET

## Celecoxib

### Section 16. Other Information

**Revision Date:** 08/14/2013

**Company Policy or Disclaimer**

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

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<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>
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<tbody>
<tr>
<td>1. Celecoxib</td>
<td>169590-42-5</td>
<td>No</td>
<td>No</td>
<td>No</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. Celecoxib</td>
<td>169590-42-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Regulatory Information Statement:

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.