SAFETY DATA SHEET
Leukotriene C4 MaxSpec® Standard

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

1.1 Product Code: 10007241
Product Name: Leukotriene C4 MaxSpec® Standard
Synonyms: 5S-hydroxy-6R-(S-glutathionyl)-7E,9E,11Z,14Z-eicosatetraenoic acid; LTC4;

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
Company Address: 1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:
Flammable Liquids, Category 2

2.2 Label Elements:
GHS Signal Word: Danger
GHS Hazard Phrases:
H225: Highly flammable liquid and vapor.
GHS Precautionary Phrases:
P210: Keep away from (heat/sparks/open flames/hot surfaces). - No smoking.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
GHS Response Phrases:
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>72025-60-6 MB9143500</td>
<td>Leukotriene C4</td>
<td>0.01 %</td>
<td>686-872-9 NA</td>
<td>Carcinogen 1B: H350</td>
</tr>
<tr>
<td>64-17-5 KQ6300000</td>
<td>Ethyl alcohol 01-2119457610-43-0000</td>
<td>99.99 %</td>
<td>200-578-6 603-002-00-5</td>
<td>Flam. Liq. 2: H225</td>
</tr>
</tbody>
</table>
## Section 4. First Aid Measures

4.1 **Description of First Aid Measures:**

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In Case of Inhalation:</strong></td>
<td>Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.</td>
</tr>
<tr>
<td><strong>In Case of Skin Contact:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>In Case of Eye Contact:</strong></td>
<td>Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.</td>
</tr>
<tr>
<td><strong>In Case of Ingestion:</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

4.2 **Important Symptoms and Effects, Both Acute and Delayed:**

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

## 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:**

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

- Container explosion may occur under fire conditions.
- Emits toxic fumes under fire conditions.
- Sensitive to static discharge.
- Vapors can travel to a source of ignition and flash back.
- No data available.

**Flash Pt:** 14.00 °C, **Method Used:** Closed Cup

**Explosive Limits:**
- LEL: 3.3% at 25.0 °C
- UEL: 19.0% at 25.0 °C

**Autoignition Pt:** 363.00 °C

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.

Note: Flammable as diluted in ethanol.

## Section 6. Accidental Release Measures

6.1 **Protective Precautions, Protective Equipment and Emergency Procedures:**

- Avoid breathing vapors 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.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.

7.2 Precautions To Be Taken in Storing:
- Keep away from heat, sparks, and flame.
- Keep container tightly closed.
- Store in accordance with information listed on the product insert.

Other Precautions:
- Hygroscopic

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Jurisdiction</th>
<th>Recommended Exposure Limits</th>
<th>Notations</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>ACGIH TLV</td>
<td>TLV: 1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>France VL</td>
<td>TWA: 1900 mg/m³ (1000 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 9500 mg/m³ (5000 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PELs</td>
<td>PEL: 1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Britain EH40</td>
<td>TWA: 1920 mg/m³ (1000 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: ()</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

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

8.2.2 Personal Protection Equipment:
- Eye Protection: Safety glasses
- Protective Gloves: Compatible chemical-resistant gloves
- Other Protective Clothing: Lab coat
- Respiratory Equipment: NIOSH approved respirator, as conditions warrant.
- Work/Hygienic/Maintenance Practices:
  - Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
  - Wash thoroughly after handling.
  - No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:
- Physical States: [ ] Gas [ X ] Liquid [ ] Solid
- Appearance and Odor: A solution in ethanol
- pH: No data.
- Melting Point: No data.
- Boiling Point: No data.
- Flash Pt: 14.00 °C Method Used: Closed Cup
- Evaporation Rate: No data.
- Flammability (solid, gas): No data available.
- Explosive Limits: LEL: 3.3% at 25.0 °C UEL: 19.0% at 25.0 °C
- Vapor Pressure (vs. Air or mm Hg): 43 MM_HG at 20.0 °C
- Vapor Density (vs. Air = 1): No data.
Section 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: heat, flames, and sparks

10.5 Incompatibility - Materials

alkali metals
ammonia
peroxides
strong oxidizing agents

10.6 Hazardous

Decomposition or Byproducts:
carbon dioxide
carbon monoxide

Section 11. Toxicological Information

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

Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LCLO (mouse): 29,300 ppm (7h);

Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;

Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effector, and tumorigen.

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

Ethanol RTECS Number: KQ6300000

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>72025-60-6</td>
<td>Leukotriene C4</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>n.a.</td>
<td>1</td>
<td>A4</td>
<td>n.a.</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information

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

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

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: Ethyl Alcohol Solution
DOT Hazard Class: 3 - FLAMMABLE LIQUID
UN/NA Number: UN1170 Packing Group: II

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Ethyl Alcohol Solution
UN Number: 1170 Packing Group: II
Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Ethyl Alcohol Solution
UN Number: 1170 Packing Group: II
Hazard Class: 3 - FLAMMABLE LIQUID IATA Classification: 3

Additional Transport Information: Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72025-60-6</td>
<td>Leukotriene C4</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Other US EPA or State Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>72025-60-6</td>
<td>Leukotriene C4</td>
<td>CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -</td>
</tr>
</tbody>
</table>
Section 16. Other Information

Revision Date: 10/08/2019

Additional Information About This Product: No data available.

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