1. **Product Code:** 62260  
2. **Product Name:** 2-Linoleoyl Glycerol  
   **Synonyms:** 9Z,12Z-octadecadienoic acid, 2-glyceryl ester; 2-LG;  
3. **Company Name:** Cayman Chemical Company  
   **Address:** 1180 E. Ellsworth Rd., Ann Arbor, MI 48108  
   **Web site address:** www.caymanchem.com  
4. **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  
   - Acute Toxicity: Inhalation, Category 4  
   - Acute Toxicity: Oral, Category 4  
   - Acute Toxicity: Skin, Category 4  
   - Serious Eye Damage/Eye Irritation, Category 2

2.2 **Label Elements:**

   
   GHS Signal Word: Danger
   GHS Hazard Phrases:
   - H225: Highly flammable liquid and vapor.
   - H302: Harmful if swallowed.
   - H312: Harmful in contact with skin.
   - H319: Causes serious eye irritation.
   - H332: Harmful if inhaled.
   
   GHS Precaution Phrases:
   - P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
   - P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.
   - P264: Wash {hands} thoroughly after handling.
   - P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
   
   GHS Response Phrases:
   - P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.
   - P302+352: IF ON SKIN: Wash with plenty of soap and water.
   - P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
   - P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
   - P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
P321: Specific treatment (see ... on this label).
P330: Rinse mouth.
P337+313: If eye irritation persists, get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.

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:
Can cause fatal cyanide poisoning.
Causes serious eye irritation.
Harmful if swallowed, inhaled, or absorbed through the skin.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be fatal if swallowed, inhaled, or absorbed through the skin.
May cause skin or respiratory system irritation.
Several hours may elapse from exposure to onset of symptoms.
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>3443-82-1 NA</td>
<td>2-Linoleoyl Glycerol</td>
<td>0.5 %</td>
<td>NA</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of 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 15 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 15 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.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

Exposure may cause: asphyxia, cyanosis, depression, diarrhea, dizziness, drowsiness, excitement, headache, impaired judgement, lack of coordination, nausea, rash, vomiting, stupor, death.

Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide.

Note for the Doctor: Acetonitrile is metabolized to cyanide. Patients with significant exposures must be observed for signs of cyanide poisoning and treated accordingly.
Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.2 Flammable Properties and Hazards:

Flash Pt: 2.00 C Method Used: Closed Cup
Explosive Limits: LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C
Autoignition Pt: 524.00 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 acetonitrile.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid breathing vapors and provide adequate ventilation.

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: 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 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.

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>75-05-8</td>
<td>Acetonitrile</td>
<td>ACGIH TLV</td>
<td>TLV: 20 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Europe</td>
<td>TWA: 70 mg/m3 (40 ppm)</td>
<td>Skin Absorption</td>
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<tr>
<td></td>
<td></td>
<td>France VL</td>
<td>TWA: 70 mg/m3 (40 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: ()</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PELs</td>
<td>PEL: 40 ppm</td>
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<tr>
<td></td>
<td></td>
<td>Britain EH40</td>
<td>TWA: 68 mg/m3 (40 ppm)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 102 mg/m3 (60 ppm)</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure Controls:

8.2.1 Engineering Controls: 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: Do not take internally.
- 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 acetonitrile
- pH: No data.
- Melting Point: No data.
- Boiling Point: No data.
- Flash Pt: 2.00 C  Method Used: Closed Cup
- Evaporation Rate: No data.
- Flammability (solid, gas): No data available.
- Explosive Limits: LEL: 3.0% at 25.0 C  UEL: 16.0% at 25.0 C
- Vapor Pressure (vs. Air or mm Hg): 73 MM_HG at 20.0 C
- Vapor Density (vs. Air = 1): No data.
- Specific Gravity (Water = 1): No data.
- Solubility in Water: No data.
- Octanol/Water Partition Coefficient: No data.
- Decomposition Temperature: No data.
- Viscosity: No data.
- Autoignition Pt: 524.00 C
- Percent Volatile: No data.

9.2 Other Information

- Molecular Formula & Weight: C21H38O4  354.5
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
   To Avoid: acids
   alkali metals
   bases
   oxidizing agents
   reducing agents

10.6 Hazardous
   Decomposition or carbon dioxide
   Byproducts: carbon monoxide
   hydrogen cyanide
   nitrogen oxides

Section 11. Toxicological Information

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

   Acetonitrile - Toxicity Data: Oral LD50 (rat): 2,460 mg/kg; Oral LD50 (mouse): 269 mg/kg; Oral LD50 (rabbit): 50 mg/kg; Oral TDLO (man): 64 mg/kg; Skin LD50 (rabbit): 980 mg/kg; Inhalation TCLO (human): 160 ppm (4h); Inhalation LC50 (rat): 7,551 ppm (8h);
   Acetonitrile - Irritation Data: Skin (rabbit) 500 mg mild; Eye (rabbit): 100 µl (24 hr) moderate;
   Acetonitrile - Investigated as a mutagen, 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.

   Acetonitrile RTECS Number: AL7700000

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP?</th>
<th>IARC Monographs?</th>
<th>OSHA Regulated?</th>
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<tbody>
<tr>
<td>3443-82-1</td>
<td>2-Linoleoyl Glycerol</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>75-05-8</td>
<td>Acetonitrile</td>
<td>n.a.</td>
<td>n.a.</td>
<td>A4</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 No data available.
   Degradability:

12.3 Bioaccumulative No data available.
   Potential:

12.4 Mobility in Soil: No data available.

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

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: Acetonitrile Solution
DOT Hazard Class: 3 - FLAMMABLE LIQUID
UN/NA Number: 1648
Packing Group: II

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Acetonitrile Solution
UN Number: 1648
Packing Group: II
Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Acetonitrile Solution
UN Number: 1648
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>
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<tbody>
<tr>
<td>3443-82-1</td>
<td>2-Linoleoyl Glycerol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>75-05-8</td>
<td>Acetonitrile</td>
<td>No</td>
<td>Yes 5000 LB</td>
<td>Yes</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>3443-82-1</td>
<td>2-Linoleoyl Glycerol</td>
<td>CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No</td>
</tr>
<tr>
<td>75-05-8</td>
<td>Acetonitrile</td>
<td>CAA HAP, ODC: HAP: VHAP; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No</td>
</tr>
</tbody>
</table>

Regulatory Information

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
Section 16. Other Information

Revision Date: 09/11/2018

Additional Information About This Product: No data available.

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