Material Safety Data Sheet

Product Name
Lumigen ECL Ultra, Solution A (Lumigen TMA-6)

Manufacturer
Lumigen, Inc.
22900 W. Eight Mile Road
Southfield, Michigan 48033
Telephone: (248) 351-5600

Composition/Information on Ingredients
Lumigen ECL Ultra, Solution A (Lumigen TMA-6) is a multi-component mixture in water solution.

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS Number</th>
<th>OSHA PEL</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1000</td>
<td>≤ 3.5</td>
</tr>
</tbody>
</table>

Hazards Identification
Acute Effects: May be harmful if absorbed through skin or swallowed.
Chronic Effects: Unknown

First Aid Measures
Eye or Skin Contact: Flush with water (at least 15 minutes for eyes) and remove contaminated clothing and shoes.
Ingestion: Immediately seek medical attention.

Fire Fighting Measures
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Special Fire and Explosion Hazards: Not expected to present a significant hazard.

Accidental Release Measures
Cover with absorbent material, pick up and store in a closed container for waste disposal. Wash spill site after material pickup is complete.

Handling and Storage
Keep tightly closed and store at 2-8 °C. Bring to room temperature before opening.

Exposure Controls/Personal Protection
Personal Protective Equipment: Use protective eyewear, chemical-resistant gloves and lab coat.
Work/Hygienic Practices: Do not get in eyes, on skin, on clothing; wash thoroughly after handling.
Physical/Chemical Characteristics
Appearance: Colorless liquid
Boiling Point: Approx. 100°C
Density: 1.0 g/mL
pH: 8
Evaporation Rate: Similar to water

Stability and Reactivity
Incompatibility: Strong oxidizing and reducing agents.
Hazardous Decomposition Products: When stored as labeled, no known hazardous decomposition products are formed.

Toxicological Information
This product has not been tested as a whole to determine its hazards.

Ecological Information
Do not flush to surface water or sanitary sources.

Disposal Considerations
Treatment, storage and transportation must comply with all Federal, State and Local laws.

Transport Information
Transportation must comply with all Federal, State and Local laws.

Regulatory Information
This substance is not listed on the TSCA Inventory of Commercial Substances, and therefore may be used only for scientific experimentation and analysis or for research and development under the supervision of a technically qualified individual.

Other Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Lumigen, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Lumigen and Lumi-Phos are registered trademarks of Lumigen, Inc. The stylized logo is a trademark of Lumigen, Inc.
Material Safety Data Sheet

Product Name
Lumigen ECL Ultra, Solution B (Lumigen TMA-6)

Manufacturer
Lumigen, Inc.
22900 W. Eight Mile Road
Southfield, Michigan 48033
Telephone: (248) 351-5600

Composition/Information on Ingredients
Lumigen ECL Ultra, Solution B (Lumigen TMA-6) is a multi-component mixture in water solution.

Hazards Identification
Acute Effects: May be harmful if absorbed through skin or swallowed.
Chronic Effects: Unknown

First Aid Measures
Eye or Skin Contact: Flush with water (at least 15 minutes for eyes) and remove contaminated clothing and shoes.
Ingestion: Immediately seek medical attention.

Fire Fighting Measures
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Special Fire and Explosion Hazards: Not expected to present a significant hazard.

Accidental Release Measures
Cover with absorbent material, pick up and store in a closed container for waste disposal. Wash spill site after material pickup is complete.

Handling and Storage
Keep tightly closed and store at 2-8 °C. Bring to room temperature before opening.

Exposure Controls/Personal Protection
Personal Protective Equipment: Use protective eyewear, chemical-resistant gloves and lab coat.
Work/Hygienic Practices: Do not get in eyes, on skin, on clothing; wash thoroughly after handling.

Physical/Chemical Characteristics
Appearance: Colorless liquid
Boiling Point: Approx. 100°C
Density: 1.0 g/mL
pH: 8
Evaporation Rate: Similar to water
Stability and Reactivity
   Incompatibility: Strong oxidizing and reducing agents.
   Hazardous Decomposition Products: When stored as labeled, no known hazardous decomposition products are formed.

Toxicological Information
   This product has not been tested as a whole to determine its hazards.

Ecological Information
   Do not flush to surface water or sanitary sources.

Disposal Considerations
   Treatment, storage and transportation must comply with all Federal, State and Local laws.

Transport Information
   Transportation must comply with all Federal, State and Local laws.

Regulatory Information
   This substance is not listed on the TSCA Inventory of Commercial Substances, and therefore may be used only for scientific experimentation and analysis or for research and development under the supervision of a technically qualified individual.

Other Information
   The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Lumigen, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Lumigen and Lumi-Phos are registered trademarks of Lumigen, Inc. The stylized logo is a trademark of Lumigen, Inc.