



Material Safety Data Sheet

Product Name

Lumigen[®] CLS, Dioxetane Solution B

Manufacturer

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

Composition/Information on Ingredients

<u>Hazardous Components</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>% w/w</u>
Ethyl alcohol	64-17-5	1000 ppm	≤ 99.0
4-(3-hydroxyphenyl)-4-methoxyspiro-[1,2-dioxetane-3,2'-adamantane]	121445-46-3	No	≤ 1.0

Hazards Identification

Acute: Burning or irritation of the eyes, nose and throat; headache, dizziness, nausea. **Chronic:** Unknown

Carcinogenicity: Not listed by NTP, IARC Monographs or OSHA.

Signs and Symptoms of Exposure: Burning or irritation of the eyes, nose and throat; headache, dizziness, nausea.

Emergency and First Aid Procedure:

Eye or Skin Contact: Flush with water (at least 15 minutes for eyes) and remove contaminated clothing.

Inhalation: Remove victim to fresh air, perform artificial respiration if needed. **Ingestion:** Seek immediate medical attention.

First Aid Measures

Eye or Skin Contact: Flush eyes or skin with water for at least 15 minutes and remove contaminated clothing and shoes.

Ingestion: Immediately seek medical attention.

Fire Fighting Measures

Flash Point: 16°C (TCC Method)

UEL: 19.0%

LEL: 3.3%

Extinguishing Media: Dry chemical, carbon dioxide, or alcohol resistant foam

Special Fire Fighting Procedures: Water may be ineffective in fighting an alcohol fire. Use water in deluge quantities or to keep fire exposed surfaces cool.

Unusual Fire and Explosion Hazards: Dangerous fire hazard, moderate explosion hazard when exposed to ignition source.

Accidental Release Measures

Eliminate all sources of ignition. Contain spilled material. Dilute to a nonflammable mixture with water. Ventilate the spill area.

Handling and Storage

Store at 2-8 °C. Store away from ignition sources and oxidizers. Empty containers may contain residual vapors and can be a fire or explosion hazard.

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

Evaporation Rate: 2.7

Vapor Density: 1.6

Boiling Point: 78°C

Specific Gravity: 0.82 @ 15.56°C

Vapor Pressure: 45 mm Hg @ 20°C

Stability and Reactivity

Incompatibility: Oxidizing agents

Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide

Toxicological Information

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

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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.