



Material Safety Data Sheet

Product Name

Lumi-Phos® Plus

Manufacturer

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

Composition/Information on Ingredients

Lumi-Phos® Plus is a multi-component mixture in water solution.

Hazardous Components

	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>% w/w</u>
2-amino-2-methyl-1-propanol	124-68-5	No	≤ 2.0
magnesium chloride hexahydrate	7791-18-6	No	≤ 0.01
4-methoxy-4-(3-phosphatophenyl)spiro[1,2-dioxetane-3,2'-adamantane]-disodium salt (Lumigen® PPD)	124951-96-8	No	≤ 0.02
1-trioctylphosphoniummethyl-4-tributylphosphoniummethylbenzene-dichloride	163342-81-2	No	≤ 0.1

Hazards Identification

Acute Effects: May be irritating to the eyes, skin and upper respiratory tract.

Chronic Effects: Fluorescein is thought to be a possible carcinogen. Though there is no known evidence that the fluorescein surfactant is a carcinogen it is recommended that repeated exposure be limited.

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: Noncombustible, 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

Wear respirator, chemical safety goggles, rubber boots and chemical-resistant gloves. 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. Do not expose to strong light. 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 and Odor: A watery yellow liquid with a slight odor of amine

Boiling Point: approx. 100°C

Specific Gravity: 1.0 g/mL

pH: 9.6

Evaporation Rate: Similar to water

Stability and Reactivity

Incompatibility: Strong oxidizing and reducing agents. Protect from light.

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.