

**Biosorb, Inc.**  
Biocarrier Products

# Material Safety Data Sheet

THIS MATERIAL SAFETY DATA SHEET MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

## I. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name: Biosorb, Inc.  
Address: 5988 Mid Rivers Mall Drive, Suite 124, St. Charles, MO 63304-4511  
Telephone: 636-936-1400

Product Name: **TopFilm™**  
Synonym: Grain Derived Adjuvant

## II. COMPOSITION/INFORMATION ON INGREDIENTS

100% Proprietary Blend of Biocar® (US Patent #5,888,500) natural microsponges and emulsifiers.

## III. HAZARDS IDENTIFICATION

Emergency Overview:

Physical Appearance and Odor: Light tan liquid with grain-like odor

Warning Statements:

Based on current available data, this product does not meet the regulatory definition of a hazardous substance; however, good industrial hygiene practices should be used when handling it.

Potential Health Effects:

Routes of Exposure

Inhalation:	Minimal Hazard
Skin Contact:	Minimal Hazard
Eye Contact:	Moderate Hazard, exposure may cause mild eye irritation.
Ingestion:	Drink large quantities of water and consult a physician.

Product is not listed as carcinogen or potential carcinogen, NTP, IARC, OSHA.

Product is not considered hazardous under any domestic or international transportation regulations.

Product has no restrictions for air freight or for commercial air transportation.

#### IV. FIRST AID MEASURES

Inhalation:	Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist call a physician.
Skin Contact:	Immediately flush skin with water. Seek medical attention if irritation develops or persists.
Eye Contact:	Rinse immediately with water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Ingestion:	Drink large quantities of water and consult a physician.
Notes to Physician:	Based on current available data, this product does not meet the regulatory definition of a hazardous substance.

#### V. FIRE-FIGHTING MEASURES

Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Flash Point:	No data available
Lower Explosion Limit:	Not applicable
Upper Explosion Limit:	Not applicable
Unusual Fire and Explosion Hazard:	None

#### VI. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions:

Safety goggles should be worn for protection against entering the eyes when handling **TopFilm™**.

Follow good housekeeping procedures when handling **TopFilm™**.

##### Cleanup and Disposal Methods:

For small spills, mop up **TopFilm™** and discard.  
For large spills, recover **TopFilm™** for use or disposal.

Dispose of waste as for any non-hazardous material.  
Observe all applicable regulations.

## VII. HANDLING AND STORAGE

- Handling: Avoid direct or prolonged contact with skin or eyes. Handle **TopFilm™** as for any non-hazardous material.
- Storage: Store in tightly closed fluorinated HDPE (high density polyethylene) or PET (polyethylene terephthalate) containers. Store in a clean area that is well ventilated at a temperature greater than 1 degrees Celsius (34 degrees F) and less than 55 degrees Celsius (131 degrees F).

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Guidelines: No exposure limits have been determined for **TopFilm™**. **TopFilm™** is non-hazardous; however, because specific work environments and material handling practices vary, safety procedures should be developed for each application.
- Personal Protective Equipment: Eyes/Skin Wear goggles and/or face shield if splashing is possible.
- Personal Protective Equipment: Skin Wear appropriate clothing and immediately flush skin with water if in contact with **TopFilm™**. Seek medical attention if irritation develops or persists.
- Personal Protective Equipment: Respiratory No equipment normally used if area has adequate ventilation. If inhaled, move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist call a physician.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odor: Light Tan Liquid, Grain-like Odor
- Solubility in Water: Miscible
- Specific Gravity (H<sub>2</sub>O =1) 0.96
- pH (As is): Not applicable  
(2% Slurry) 5-7
- Boiling Point: Not applicable
- Vapor Pressure: Not applicable
- Melting Point: Not applicable

## X. STABILITY AND REACTIVITY

- Chemical Stability: Stable under normal conditions
- Conditions to Avoid: Avoid exposure to decomposition products
- Incompatibility: Avoid strong oxidizing agents and alkalies.
- Hazardous Decomposition: **TopFilm™** is stable and has not been found to undergo any hazardous polymerization.

## XI. TOXICOLOGICAL INFORMATION

- Carcinogenicity: **TopFilm™** is not listed as carcinogen or potential carcinogen, NTP, IARC, OSHA.
- Mutagenicity: This product class is non-mutagenic.
- LD50 Value: No data available.

## XII. ECOLOGICAL INFORMATION

- Ecotoxicity: No data available on finished product.
- Environmental Fate: This product is biodegradable.

## XIII. DISPOSAL CONSIDERATIONS

- Disposal Instructions: Dispose of waste as for any non-hazardous material. Observe all applicable regulations.

## XIV. TRANSPORT INFORMATION

- DOT Proper Shipping Name: Refer to bill of lading or container label for DOT information.  
**TopFilm™** is non-hazardous.

## XV. REGULATORY INFORMATION

- Workplace Classification: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## XVI. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process.