

### 1. IDENTIFICATION

**Product Name:** BiopHilm™

Intended Use/Restrictions of use: BiopHilm™ is a polymer-based protector recommended for products

containing non-spore forming microbes e.g. Rhizobia, Pseudomonas, etc.

Details of Supplier of SDS: Microbika

P.O. Box 3253

Lichtenburg, 2740, South Africa E-mail: info@microbika.com

Emergency telephone: 0861-555 777 (AfriTox 24 Hour Service)

### 2. HAZARDS IDENTIFICATION

Classification of the Substance CLP / GHS / Hazcom 2012 Classification: Not classified as hazardous

Skin Contact: Non-irritant Non-irritant **Eye Contact:** 

Not an inhalation hazard under normal conditions of use. Inhalation:

Low toxicity product. It is highly unlikely that a sufficient quantity would Ingestion:

be accidentally swallowed to cause any injury.

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Gel-Forming Polymer (0.5% - 1.5%), Buffer salts ( $\pm 1\%$ ) in aqueous solution. All ingredients are classified as nonhazardous.

### 4. FIRST AID MEASURES

**Skin Contact:** Wash exposed skin with soap and water.

**Eye Contact:** Flush thoroughly with water for 15 minutes. If any irritation persists

seek medical attention.

Inhalation: Remove person to fresh air. Get medical attention if any signs of

sensitization (e.g. difficult breathing, chest pain, headache, and flu like

symptoms) occur.

Ingestion: Drink water, do not induce vomiting. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

Type of Material: Non-combustible liquid.

This product is not flammable or combustible. Extinguishing Media:

Special Exposure Hazards: This product does not burn freely

**Special Protective Equipment:** Wear chemical protections suit, suitable gloves and boots, and self-

contained breathing apparatus.

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Revision date: 13 July 2020



# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use protective clothing, gloves, safety goggles and boots. Do not

swallow.

**Environmental Precautions:** Avoid disposal of large amounts into drains, surface water or

groundwater.

**Disposal Method(s):** Carefully wash exposed area with soap and water. Dispose material into

suitable container, within local regulations.

### 7. HANDLING AND STORAGE

**Handling Precautions:** Keep out of reach of children, uniformed persons and animals.

May cause slight eye irritation.

May cause allergic reactions in sensitive persons.

Wash hands with soap and water before eating, drinking or smoking.

Destroy empty bag and do not use for any other purpose.

Prevent contamination of food, feed, drinking water and eating utensils

**Storage Conditions:** Store in accordance with package instructions.

Do not freeze.

Store in a cool, dry and dark place.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Standard precautionary measures for handling chemicals should be

observed.

**Exposure Controls:** 

Skin protection Use protective clothing & gloves.

Respiratory protection No specific recommendation.

Thermal hazards None.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Appearance: Liquid

**Colour:** Slightly light grey transparent mixture

Smell: No Significant odour

Formulation Type: Liquid (LQ)

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Storage Stability: Store at a constant temperature between 8 and 24°. Do not freeze.

Keep out of direct sunlight.

Shelf Life: 24 months at room temperature.

**Bulk Density:**  $1000 \text{ kg/m}^3$ Flammability: Non-flammable Flash Point: Not applicable

pH: pH 6-7 pH of 1% Aqueous Dilution: pH 6-7

**Oxidizing Properties:** Non-oxidizing Corrosiveness: Non-corrosive

Water Content: >85%

Solubility in Water: Not applicable Not applicable Foaming: Particle size: Not applicable Volatility: Non-volatile Viscosity: Not applicable

# 10. STABILITY AND REACTIVITY

Stability: This product is stable for 18 months when stored according to product

instructions.

Conditions to Avoid: Keep out of direct sunlight

Do not use for other legumes except as indicated Materials to Avoid:

**Hazardous Decomposition Products:** None known

### 11. TOXICOLOGICAL INFORMATION

Data not available **Acute Oral Toxicity:** Eye Irritation: Data not available Skin Irritation: Data not available Data not available **Acute Pulmonary:** Acute Intra-peritoneal: Data not available Intravenous: Data not available **Chronic Effects:** Data not available

# 12. ECOLOGICAL INFORMATION

Not known to be hazardous to the environment **Environmental Behaviour:** 

Mobility and Bio-accumulation Not applicable

potential:

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**Ecotoxic Effects:** Not known to have ecotoxic effects **General Information:** No acute or chronic effects are known.

# 13. DISPOSAL CONSIDERATIONS

**Precautions:** None of the ingredients raise concern for the environment.

**Disposal of Product:** Unwanted product may be safely disposed of in a land-fill or discarded

as non-hazardous waste in accordance with local regulations.

# 14. TRANSPORT INFORMATION

Road/rail:

Not classified as dangerous in the meaning of transport regulations.

Not classified as dangerous in the meaning of transport regulations.

Not classified as dangerous in the meaning of transport regulations.

ADR:

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

Supply Classification:

Hazard Symbols:

None

Risk Phrases:

None

Safety Recommendations: Keep out of reach of children, uniformed persons and animals.

May cause slight eye irritation.

May cause allergic reactions in sensitive persons.

Wash hands with soap and water before eating, drinking or smoking.

Destroy empty bag and do not use for any other purpose.

Prevent contamination of food, feed, drinking water and eating utensils.

### **16. OTHER INFORMATION**

**Recommended Use:** BiopHilm<sup>™</sup> is a polymer-based protector recommended for products

containing non-spore forming microbes e.g. Rhizobia, Pseudomonas,

etc.

Further Information: Product classified and safety datasheet produced according to GHS

directives.

The information contained in this SDS was compiled using the latest and most reliable information available to Microbika. The data is based on the current expertise and presents the health, safety and environmental aspects of this product. They form no guarantee of product properties. Recommendations presented in this SDS apply only to the product as originally supplied. If other ingredients are used in the processing of this product, the recommendations for the use and handling of that product must be verified.

This document contains important information in order to ensure the safe storage, handling and use of this product. The information in this document must be brought to the attention of the safety/health/environmental advisor within your organisation. The information in this document must be made known to everyone whose work involves this product.

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