

## Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

Product:	Biobarrier Root Control System
EPA Registration No.:	59823-1
Chemical Family:	Thermoplastic Polyolefin
Manufacturer Information:	Fiberweb, Inc 70 Old Hickory Blvd. Old Hickory, TN 37138
Company Contact:	Jim Reynolds
Telephone Number:	1-615-847-7501 (8AM-5PM M-F Central Time)
Emergency Phone Contact:	Chemtrec (24 Hours)
Emergency Phone Number:	1-800-424-9300

### Section 2 - Hazards Identification



Irritant  
Hazardous to the Aquatic Environment



#### Emergency Overview

Signs and symptoms of exposure: coughing or wheezing.

#### Route of Exposure-Skin

Irritant and may cause skin sensitization.

#### Route of Exposure-Eye

Irritant. Causes moderate eye irritation.

#### Route of Exposure -Ingestion

Harmful if swallowed


#### Route of Exposure-Inhalation

Harmful if inhaled

#### HMIS Ratings

Health: 1      Fire: 1      Reactivity: 0      Personal Protection: A  
Hazard Scale: 0=Minimal    1=Slight    2=Moderate    3=Serious    4=Severe  
\*=Chronic Hazard

## Section 3 - Composition

CAS#	Component	Percent
9003-07-0	Polypropylene*	>20%
9002-88-4	Polyethylene	<45%
1582-09-8	 Trifluralin	<20%
1333-86-4	Carbon Black	<15%

\*Contains Pigment Masterbatch: <1%; UV Stabilizer: <3%

## Section 4 - First Aid Measures

### **First Aid-Skin**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

### **First Aid-Eye**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

### **First Aid-Ingestion**

Call a poison control center or doctor immediately for treatment advice. Sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### **First Aid-Inhalation**

Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for treatment advice.

### **First Aid-Notes to Physician**

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

## Section 5 - Fire Fighting Measures

**Flash Point:** Not Applicable

**Method Used:** Not Applicable

**Auto Ignition:** Not Applicable

**Flammability Classification:** Not Applicable

**Lower Explosive Limit (%):** Not Applicable

**Upper Explosive Limit (%):** Not Applicable

### **General Fire Hazards**

Solid material may burn upon extended exposure to open flames.

### **Hazardous Combustion Products**

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

### **Extinguishing Media**

Water spray, foam, carbon dioxide, or dry chemical

### **Fire Fighting Equipment/Instructions**

As in any fire, wear a self-contained breathing apparatus and full protective gear.

### **NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

## **Section 6 - Accidental Release Measures**

### **Containment Procedures**

Sweep waste fabric into a pile.

### **Clean -Up Procedures**

Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

### **Evacuation Procedures**

Not Applicable

### **Special Procedures**

None

## **Section 7 - Handling and Storage**

### **Handling Procedures**

Avoid exposure to heat, sparks or open flames.

Use care in stacking and storing to avoid damage to product.

### **Storage Procedures**

Store material away from direct sunlight in a cool (below 60°C), dry warehouse that is equipped with a sprinkler system.

Ensure product is not stacked too high.

To prevent water damage, store product off the floor.

Avoid direct exposure to UV light.

Avoid exposure to corrosive substances.

Limit exposure to petroleum powered engine exhaust.

## Section 8 - Exposure Controls/Personal Protection

### Component Exposure Limits

Component	CAS#	Exposure Limits
Polypropylene	9003-07-0	ACGIH TLV-TWA: None Available OSHA PEL: None Available
Polyethylene	9002-88-4	ACGIH TLV-TWA: None Available OSHA PEL: None Available
Trifluralin	1582-09-8	ACGIH TLV-TWA: None Available OSHA PEL: None Available
Carbon Black	1333-86-4	ACGIH TLV-TWA: 3.5mg/m <sup>3</sup> Total/Nuisance Dust OSHA PEL: 3.5mg/m <sup>3</sup> Total Dust

### **Engineering Controls**

Normal room ventilation is usually adequate.

### **Personal Protective Equipment**

#### **Personal Protective Equipment-Eyes/Face**

None usually required

#### **Personal Protective Equipment-Skin**

Wear long sleeved shirt, long pants, shoes, socks and chemical resistant gloves such as or made of any waterproof material.

#### **Personal Protective Equipment-Respiratory**

None usually required

#### **Personal Protective Equipment-General**

Follow individual plant safety rules.

## Section 9 - Physical & Chemical Properties

<b>Appearance:</b>	Yellow-Green Fabric with Black Nodules	<b>Odor:</b>	Aromatic (Solvent)
<b>Physical State:</b>	Solid	<b>pH:</b>	Not Applicable
<b>Vapor Pressure*:</b>	13.7 mPa @ 25°C	<b>Evaporation Rate:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable	<b>Melting Point*:</b>	>48.5°C
<b>Solubility (H<sub>2</sub>O)*:</b>	0.2ppm @25°C	<b>Specific Gravity:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable	<b>Percent Volatiles:</b>	NIL
<b>Packing Density:</b>	Not Applicable		

\*Based on Trifluralin (CAS# 1582-09-8)

## Section 10 - Chemical Stability & Reactivity Information

### **Chemical Stability**

Under ordinary conditions of use and storage the product is stable.

### Conditions to Avoid

Combustible when exposed to open flames. Avoid chlorine, fluorine, and other strong oxidizers.

### Incompatibility

None Known

### Hazardous Decomposition

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition.

### Hazardous Polymerization

Will not occur

## Section 11 - Toxicological Information

### Acute and Chronic Toxicity

#### General Product Information

No additional information.

#### Component Analysis

Component	CAS#	LD <sub>50</sub> /LC <sub>50</sub>
Polypropylene	9003-07-0	No information available
Polyethylene	9002-88-4	No information available
Trifluralin	1582-09-8	Rat: LD <sub>50</sub> : Route: Acute Oral Toxicity: >4000 mg/kg Rabbit: LD <sub>50</sub> : Route: Acute Dermal Toxicity: >2000 mg/kg Rat: LD <sub>50</sub> : Route: Acute Inhalation Toxicity: LC <sub>50</sub> (rat): >4.65 mg/L (4 hours) Skin Irritation: Mildly irritating (rabbit) Eye Irritation: Mildly irritation (rabbit) Sensitization: Mild sensitizer (guinea-pig)
Carbon Black	1333-86-4	No information available

### Carcinogenicity

#### General Product Information

Carbon black has been evaluated by IARC as possibly carcinogenic to humans (Group 2B). NIOSH recommends that only carbon black with PAH>.1% be suspected carcinogens. The ACGIH classifies carbon black as A4, Not Classifiable as Human Carcinogen.

#### Epidemiology

No information available.

#### Neurotoxicity

No information available.

#### Mutagenicity

No information available.

#### Teratogenicity

No information available.

### **Other Toxicological Information**

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

## **Section 12 - Ecological Information**

### **Ecotoxicity**

#### **General product Information**

Trifluralin (CAS # 1582-09-8) is very toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment.

#### **Environmental Fate**

Trifluralin (CAS # 1582-09-8) has low mobility in soil and can be absorbed in soils with high organic content. Trifluralin (CAS # 1582-09-8) is moderately persistent in soil with a half-life time of approximately 45 days. Degradation is primarily via microorganisms.

## **Section 13 - Disposal Considerations**

### **US EPA Waste Number & Descriptions**

#### **General Product Information**

None identified.

#### **Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components

### **Disposal Instructions**

Trifluralin (CAS # 1582-09-8) should be disposed of in a pesticide approved landfill or in a chemical incinerator equipped with scrubbers, in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

## **Section 14 - Transportation Information**

### **Transportation Regulations**

Product is not regulated for transportation.

## **Section 15 - Regulatory Information**

### **US Federal Regulations**

#### **General Product Information**

No additional information.

### Component Analysis-Federal

Component	CAS#	SARA 302 (40CFR355 APPX A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Polypropylene	9003-07-0	No	No	No
Polyethylene	9002-88-4	No	No	No
Trifluralin	1582-09-8	No	Yes	Yes
Carbon Black	1333-86-4	No	No	No

UK= Unknown

### State Regulations

#### General Product Information

Other state regulations may apply. Check individual state requirements.

#### Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS#	CA Prop 65	FL	MA	MN	NJ	PA
Polypropylene	9003-07-0	Yes*	No	No	No	No	No
Polyethylene	9002-88-4	No	No	No	No	No	No
Trifluralin	1582-09-8	No	Yes	Yes	No	Yes	Yes
Carbon Black	1333-86-4	Yes*	No	Yes	Yes	Yes	Yes

\*Based on Carbon Black (CAS # 1333-86-4) airborne, unbound particles of respirable size. However, the Carbon Black (CAS # 1333-86-4) used in this product is not expected to have airborne, unbound respirable particles.

UK= Unknown

### Component Analysis-WHMIS IDL

The following components are knowingly identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Component	CAS#	Minimum Concentration
Carbon Black	1333-86-4	1%

### Additional Regulatory Information

#### Component Analysis-Inventory

Component	CAS#	TSCA	DSL/NDSL	EINECS
Polypropylene	9003-07-0	Yes	Yes	Yes (6-402)
Polyethylene	9002-88-4	Yes	Yes	Yes
Trifluralin	1582-09-8	Yes	Yes	Yes
Carbon Black	1333-86-4	Yes	Yes	Yes

## Section 16 - Other Information

### Other Information

Material for this SDS was taken from SDSs for raw materials.

### **SDS History**

Updated information and changed name 12/5/06; Updated formatting 06/21/07; Change contact name 8/13/07; Updated contact information and date 2/09/09; Updated information 9/8/10; Updated formulation 11/15/10; Updated Component Analysis - State in Section 15 on 8/3/11; Updated information to GHS compliant 6-7-13.

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