



## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

Product: Biobarrier Root Control System  
Chemical Family: Thermoplastic Polyolefin  
Manufacturer Information: Fiberweb, Inc  
70 Old Hickory Blvd.  
Old Hickory, TN 37138  
Company Contact: David Midget  
Telephone Number: 1-800-284-2780 (M-F 8am-5pm Central Time)  
Emergency Phone Contact: Chemtrec (24 Hours)  
Emergency Phone Number: 1-800-424-9300

### Section 2 – Composition

<u>CAS #</u>	<u>Component</u>	<u>Percent</u>
9003-07-0	Polypropylene	>74.8%
Mixture	UV Stabilizer	<5%
1582-09-8	Trifluralin	<20%
Mixture	Pigment Masterbatch*	<0.5%

\*Contains Carbon Black (CAS # 1333-86-4) : <0.1%

### Section 3 – Hazards Identification

#### **Emergency Overview**

Signs and symptoms of exposure: coughing or wheezing.

#### **Route of Exposure-Skin**

Possible irritant and may cause skin sensitization.

#### **Route of Exposure-Eye**

Possible irritant.

#### **Route of Exposure -Ingestion**

Not Applicable

#### **Route of Exposure-Inhalation**

Not expected to be a problem being that this product is an inert solid.

#### **HMIS Ratings**

Health: 0 Fire: 1 Reactivity: 0 Personal Protection: A

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

## **Section 4 - First Aid Measures**

### **First Aid-Skin**

Wash affected area with soap and water.

### **First Aid-Eye**

Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.

### **First Aid-Ingestion**

Minimal toxicity; no adverse effects expected.

### **First Aid-Inhalation**

Not expected to be a problem being that this product is an inert solid.

### **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:** >329°C( 625°F)

**Method Used:** Not Applicable

**Auto Ignition:** >275°C( 675°F)

**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: 0 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.

### Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.  
Ensure product is not stacked too high.  
Store product off the floor to prevent water damage.

## 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
UV Stabilizer	Mixture	ACGIH TLV-TWA: None Available OSHA PEL: None Available
Trifluralin	1582-09-8	ACGIH TLV-TWA: None Available OSHA PEL: None Available
Pigment Masterbatch*	Mixture	ACGIH TLV-TWA: 3.5mg/m <sup>3</sup> Total/Nuisance Dust OSHA PEL: 3.5mg/m <sup>3</sup> Total Dust

\*Based on Carbon Black (CAS # 1333-86-4)

### Engineering Controls

Normal room ventilation is usually adequate.

### Personal Protective Equipment

#### Personal Protective Equipment-Eyes/Face

None usually required

#### Personal Protective Equipment-Skin

None usually required

#### Personal Protective Equipment-Respiratory

None usually required

#### Personal Protective Equipment-General

Follow individual plant safety rules.

## Section 9 - Physical & Chemical Properties

<b>Appearance:</b>	Gray Fabric	<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>	0.2 ppm @ 25°C	<b>Specific Gravity:</b>	0.88-0.99
<b>Vapor Density:</b>	Not Applicable	<b>Percent Volatiles:</b>	NIL
<b>Packing Density:</b>	Not Applicable		

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

## Section 10 - Chemical Stability & Reactivity Information

### Chemical Stability

Stable under ordinary conditions of use and storage.

**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	LD50/LC50
Polypropylene	9003-07-0	<u>Rat</u> ; <u>LD 50</u> ; <u>Route</u> : Intraperitoneal; <u>Dose</u> : >110mg/kg; <u>Toxic Effects</u> : lacrimation; Sence organs and special sences-ptosis; Behavioral-convulsions or effect on seizure threshold; <u>Reference</u> : Yakuri to Chiryō. Pharmacology and Therapeutics 14:1109, 1986 <u>LD50</u> ; <u>Route</u> : Intravenous; <u>Dose</u> : >99kg/mg; <u>Toxic Effects</u> : Behavioral-tremor; Lungs, Thorax, or Respiration-cyanosis; Nutritional and Gross Metabolic-body temperature decrease; <u>Reference</u> : Yakuri to Chiryō. Pharmacology and Therapeutics 14:1109, 1986.
Trfluralin	1582-09-8	<u>Rat</u> : <u>LD50</u> ; <u>Route</u> : Acute Oral Toxicity: >4000 mg/kg <u>Rabbit</u> : <u>LD50</u> ; <u>Route</u> : Acute Dermal Toxicity: >2000 mg/kg <u>Rat</u> : <u>LD50</u> ; <u>Route</u> : Acute Inhalation Toxicity: LC50 (rat): >4.65 mg/L (4 hours) Skin Irritation: Mildly irritating (rabbit) Eye Irritation: Mildly irritation (rabbit) Sensitization: Mild sensitizer (guinea-pig)

**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
UV Stabilizer	Mixture	No	No	No
Trifluralin	1582-09-8	No	Yes	Yes
Pigment Masterbatch	Mixture	No	No	No

### **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	FL	MA	MN	NJ	PA
Polypropylene	9003-07-0	No	No	No	No	No	No
UV Stabilizer	Mixture	UK	UK	UK	UK	UK	UK
Trifluralin	1582-09-8	No	Yes	Yes	No	Yes	Yes
Pigment Masterbatch*	Mixture	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
Pigment Masterbatch*	Mixture	1%

\*Based on Carbon Black (CAS # 1333-86-4)

**Additional Regulatory Information**

**Component Analysis-Inventory**

Component	CAS	TSCA	DSL/NDSL	EINECS
Polypropylene	9003-07-0	Yes	Yes	Yes (6-402)
UV Stabilizer	Mixture	Yes	Yes	Yes
Trifluralin	1582-09-8	Yes	Yes	Yes
Pigment Masterbatch	Mixture	Yes	Yes	Yes

UK=Unknown

**Section 16 - Other Information**

**Other Information**

Material for this MSDS was taken from MSDS's for raw materials

**MSDS History**

Updated information and changed name 12/5/06

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THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

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