

MSDS **Material Safety Data Sheet**

PROFILE Products, LLC



PROFILE FUTERRA ENVIRONET®

MSDS Number: CON002

Revision Date: 2/20/08

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

PROFILE Products, LLC
750 LAKE COOK ROAD
SUITE 440
BUFFALO GROVE, IL 60089

Contact:

Telephone Number: (847) 215-1144

FAX Number: (847) 215-0577

E-Mail: profileproducts.com

Web www.profileproducts.com

Product Name: PROFILE FUTERRA ENVIRONET®
Revision Date: 2/20/08
MSDS Number: CON002
Common Name: N.A.

Description-Pine/Poplar Wood Fiber

2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, skin contact, eye contact

Target Organs:

Inhalation: Wood dust may cause sneezing, irritation, and dryness of the nose and throat. Dust may aggravate pre-existing respiratory conditions.

Skin Contact: Wood dust can cause irritation. Skin absorption is not known to occur.

Eye Contact: Wood dust can irritate the eyes.

Ingestion: No reports of human ingestion.

NFPA-ratings (scale 0-4): Health = 0, Fire = 2, Reactivity = 0

Avoid inhalation of any dust, avoid skin contact, protect eyes, avoid ingestion and prolonged exposure.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Perc.	Chemical Name

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4 FIRST AID MEASURES

Inhalation: Usually not a problem. Remove to fresh air if respiratory irritation develops, and get medical aid promptly if irritation persists.

Skin Contact: Usually not a problem. Wash off with running water if irritation is experienced.

Eye Contact: Open eyelids and flush with water.

Ingestion: Get medical attention.

5 FIRE FIGHTING MEASURES

Autoignition Temperature: 400-500 degrees Fahrenheit

Flammable- Extinguish with water; same as a wood fire

6 ACCIDENTAL RELEASE MEASURES

Sprinkle spillage compound to minimize dust and sweep up spilled debris, absorb and sweep up / collect; avoid inhalation and / or ingestion of any dust.

7 HANDLING AND STORAGE

Handling Precautions: Do not store in contact with flames or hot surfaces.

Storage Requirements: Store in a cool, dry place. Keep away from sources of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Protective Equipment: Eyes: Safety glasses or goggles should be worn if there is possibility of eye contact.
Skin: Gloves for hands, wear clothing to prevent skin contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green or Natural Brown non-woven mat	Boiling Point:	
Physical State:		Freezing/Melting Pt.:	
Odor:	Wood odor	Solubility:	
pH:		Spec Grav./Density:	lighter than water
Vapor Pressure:	N/A		
Vapor Density:			

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10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid:

Materials to avoid (incompatibility): Avoid strong oxidizers/reducers

Hazardous Decomposition products:

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Wood dusts- All other species: ACGIH (2007): TLV-TWA 1 mg/m³ (Inhalable fraction); A4

Particulates Not Otherwise Regulated (PNOR): OSHA: PEL-TWA 15 mg/m³ (Total Dust); 5 mg/m³ (Respirable fraction)

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Disposal according to local, state and federal environmental requirements.

14 TRANSPORT INFORMATION

DOT Class: Not regulated #

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15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
NRC = Nationally Recognized Carcinogens
OSHA WAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
NJ EHS = NJ Extraordinarily Hazardous Substances
NJHS = NJ Right-to-Know Hazardous Substances
OSHA PSM = OSHA Chemicals Requiring process safety management
SARA313 = SARA 313 Title III Toxic Chemicals

16 OTHER INFORMATION

END OF MSDS DOCUMENT



Futerra[®]
F4NETLESS[®]

Futerra[®]
ENVIRONET[®]



ENVIRONMENTALLY FRIENDLY BLANKETS
FOR GROWTH ESTABLISHMENT AND EROSION CONTROL



Your Trusted Partner In Soil Solutions 

COMPREHENSIVE, CUSTOMIZED SOLUTIONS FOR YOUR SITE

Profile Erosion Control Solutions (PECS™) combines the industry's most comprehensive assortment of erosion and sediment control technologies and innovative Green Design Engineering™ to help you maximize erosion control and vegetation establishment on slopes, channels, shorelines, fine turf areas and environmentally sensitive sites. Our dedicated team of erosion and sediment control experts will work with you to create and implement a complete solution, utilizing a range of proven Profile products.

PECS is a unique, fully integrated approach to your site, including:



- IN THE GROUND** → Agronomic solutions that promote rapid seed germination and long-term vegetation establishment.
- ON THE GROUND** → Innovative products that prevent erosion on slopes, channels, shorelines, streambanks and wetlands while minimizing risk to the environment.
- BY YOUR SIDE** → Green Design Engineering™ ensures unfailing support from our agronomic and erosion control experts, to help select and install the right products for maximum results.



**WHISKEY CREEK
GOLF CLUB
IJAMSVILLE, MD**

MOST SPECIFIED BLANKET FOR THE GOLF INDUSTRY

Futerra® is the ideal choice for establishing thick turf and native areas on golf courses. Futerra is a flexible, environmentally friendly solution, allowing you to use an assortment of specified plant varieties across the course—without special equipment. Futerra is easy to install, providing immediate erosion control and rapid vegetation establishment, even on fine turf areas. And, it costs less than half the price of installed sod while creating a smoother, more aesthetically pleasing playing surface for golfers.

Profile Products proudly supports:



Charter Affiliate



Charter Member

THE FUTERRA® FAMILY: PROVEN 99.9% EFFECTIVE

Profile Products brings you the Futerra® family of erosion control and revegetation blankets—to minimize soil erosion while rapidly establishing vegetation. Futerra blankets provide greater aesthetic appeal, are easier to install and provide an unparalleled 99.9% erosion control effectiveness and faster germination than traditional stitch-bonded straw, coconut and excelsior blankets that are plagued by dangerous and unsightly loose nettings and threads.

Through a proprietary and patented process, Futerra uses Thermally Refined™ wood and degradable man-made fibers that are intertwined into a dimensionally stable composite matrix that conforms to the soil surface, preventing washouts and seed migration. This innovative technology allows Futerra to rapidly absorb water and hold it in place for enhanced germination and growth.

FUTERRA® F4 NETLESS®

Futerra F4 Netless employs a lightweight, yet lofty matrix that provides high levels of slope protection and vegetative establishment for fine turf and environmentally sensitive applications.

With weed-free and environmentally friendly F4 Netless, there are no nets or threads to entangle plants and animals or snare maintenance equipment.

Photo courtesy of Lucinda Dustin



Minimize
Environmental Risks



Eliminate Unsightly
Nets or Threads



Reduce Maintenance
Issues and Downtime

FUTERRA® ENVIRONET™

Building on the superior erosion control and turf establishment qualities of F4 Netless, Profile created EnviroNet for slopes and environmentally sensitive sites where windy conditions and/or higher levels of installation stress may be encountered.

EnviroNet features a thermally fused matrix, reinforced with a quick degrading, rectangular netting that minimizes wildlife entanglement and improves site safety.



Unique Strand Configuration
Maximizes Degradation



Shown Above – Traditional Nets
can Trap Wildlife



Designed to Protect
Environmentally Sensitive Sites

DESIGNED FOR THE ENVIRONMENT

Fully photo and biodegradable, minimizing wildlife hazards and eliminating clean up after the job.

ACCELERATED GERMINATION

Faster seed germination compared to alternative products.

CONFORMS TO SOIL

Prevents rilling and seed migration.

LIGHTWEIGHT DESIGN

Half the weight of excelsior blankets, allowing for faster installation.

Packaging information and instructions for Futerra® F4 Netless® and Futerra® EnviroNet™ can be found behind the products samples to the right.

FUTERRA® F4 NETLESS®				
Roll Dimensions	Roll Area	Average Weight	Rolls/Pallet	Truckload Quantity
3.25' x 90' 1 m x 27.4 m	32.5 yd ² 27.4 m ²	10.5 lb 4.8 kg	32	24,960 yd ² 20,866 m ²
6.50' x 90' 2 m x 27.4 m	65 yd ² 54.8 m ²	20.5 lb 9.32 kg	16	24,960 yd ² 20,866 m ²

Rolls available in green or natural color. Wrapped individually in UV-resistant plastic film with printed installation guidelines.

Pallets packaged in weather-resistant stretch wrap for outdoor storage.

For product specifications and additional technical or installation instructions, please visit www.futerra.com.

FUTERRA® ENVIRONET™				
Roll Dimensions	Roll Area	Average Weight	Rolls/Pallet	Truckload Quantity
3.33' x 135' 1 m x 41 m	50 yd ² 41 m ²	17 lb 7.7 kg	32	38,400 yd ² 31,488 m ²
6.83' x 135' 2.1 m x 41 m	102.5 yd ² 86.1 m ²	36 lb 16.3 kg	16	39,360 yd ² 33,062 m ²

BLANKETS DESIGNED TO OUTPERFORM— EVEN ON ENVIRONMENTALLY SENSITIVE SITES



PROTECTS THE EARTH

Futerra® blankets are proven to keep soil in place with 99.9% effectiveness. When compared to traditional blankets and nets, Futerra clearly provides better slope protection with faster, thicker vegetative establishment.

EASIER TO INSTALL

Futerra® F4 Netless® and EnviroNet™ are lighter and easier to cut, shape and deploy than other blankets. They require fewer man-hours and offer quick coverage for even the toughest landscape challenges.

ENHANCED SITE SAFETY

Both F4 Netless and new EnviroNet are designed to minimize danger to wildlife or maintenance equipment. No nets mean no entanglement and in those areas where netting is needed, the rapidly degrading, open aperture of the EnviroNet netting provides a reliable and safe alternative.

EASILY REPLACES SOD

Futerra is routinely installed on golf courses, parks, commercial projects and home building sites in lieu of sod for the following reasons:

- Saves valuable dollars—costs less than half the price of installed sod, including seed and fertilizer
- Saves installation time—it takes one man-hour to lay 3,000 square feet of Futerra versus one man-hour to lay 500 square feet of sod
- Improves site logistics—one truckload of Futerra EnviroNet covers eight acres, compared to a truckload of sod that only covers one-quarter of an acre
- Flexible—allows recently released seed varieties to be used versus sod monoculture

NATURE-FRIENDLY ANCHORS

As a part of Profile Erosion Control Solutions (PECS™), we offer a complete line of Futerra stakes and staples. Biodegradable Futerra Stakes™ are a safer, more environmentally friendly alternative for securing blankets. Futerra Staple Guns™ and Futerra Staples™ improve installation efficiencies while reducing labor time and costs.

PROOF FUTERRA® OUTPERFORMS THE COMPETITION

WE KEEP THE EARTH FROM MOVING

Comparative data from the demanding testing protocol developed at the Utah Water Research Laboratory (UWRL) demonstrates that Futerra® F4 Netless® and EnviroNet™ took erosion control effectiveness ratings to unprecedented levels. Percent effectiveness compares erosion amounts of a slope treated with an erosion control device versus the same unprotected slope when subjected to carefully controlled rainfall events. Slope gradient, length, soil type, rainfall intensity, raindrop kinetic energy and event duration are the most commonly evaluated parameters when comparing erosion control devices. Percent effectiveness is determined by subtracting the soil loss ratio of the treated surface versus an untreated control surface ("C" Factor) from one and multiplying by 100 percent.

Soil Loss/Acre*



* Soil loss/acre calculation based upon extrapolation of soil loss to a one acre site disturbance

NEARLY PERFECT PERFORMANCE

Futerra blankets have been proven to deliver the fastest germination and highest effectiveness rating when compared to traditional straw and excelsior blankets. They have been evaluated under the standard growth establishment testing protocol developed and endorsed by the Erosion Control Technology Council (ECTC)—the technical and marketing trade association for rolled erosion control products. Comparative growth establishment data derived from standard test methods ASTM D1117—Water Absorption and ASTM D7322—Growth Establishment, verified clear agronomic superiority of Futerra F4 Netless and EnviroNet over stitch-bonded straw and excelsior blankets.

FUTERRA PROVEN 99.9% EFFECTIVE

	C-Factor ¹	Effectiveness Rating	Soil Loss/Plot ²
Futerra® EnviroNet™	0.0007	99.9+%	0.2 lb
Futerra® F4 Netless®	0.001	99.9%	0.4 lb
Single-Net Straw Blanket	0.073	92.7%	28.9 lb
Single-Net Excelsior Blanket	0.075	92.5%	29.8 lb
Bare Soil Control	1.000	0.0%	397.0 lb

¹ Test Conditions — UWRL Rainfall Simulator, Slope Gradient — 2.5H:1V

Soil Type — Sandy Loam; Rainfall Event — 5"/hr; Test Duration — 1 hr; ²Plot size 4' by 19.5'

ABSORBS MORE WATER, SPEEDS GERMINATION



Average values of industry leading single-net straw and excelsior blankets as detailed in public AASHTO-NTPEP reports and independent laboratory testing using standard test methods ASTM D1117 and D7322



For technical information, distributor location and customer service call (800) 508-8681.
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 and Futerra Staples are trademarks of PROFILE Products LLC.
 750 Lake Cook Road • Suite 440 • Buffalo Grove, IL 60089

www.futerra.com

