



## EcoMatrix™ Engineered Fiber Matrix™ (EFM)

SDS Number: CON071

Revision Date: 1/1/17

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**1** PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

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

**Emergency:** Emergency Phone: (800) 424-9300 (ChemTrec)  
**Contact:** ChemTrec Acct #: CCN792719  
**Phone:** (847) 215-1144  
**Fax:** (847) 215-0577  
**Email:** tech@profileproducts.com  
**Web:** www.profileproducts.com

**Product Name:** EcoMatrix™ Engineered Fiber Matrix™ (EFM)  
**Revision Date:** 1/1/17  
**SDS Number:** CON071  
**CAS Number:** Not applicable  
**Product Use:** Erosion control and revegetation mulch for hydraulic seeding

Product Description: Green dyed wood fibers, biodegradable fibers, minerals and a proprietary binder mixture.

**2** HAZARDS IDENTIFICATION**Classification of the Substance or Mixture**

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

No GHS Classifications Indicated

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **NONE**

no GHS pictograms indicated for this product

**GHS Hazard Statements:**

no GHS hazards statements indicated

**GHS Precautionary Statements:**

no GHS precautionary statements indicated

**Hazards not Otherwise Classified (HNOC) or not Covered by GHS**

**Route of Entry:** Inhalation, skin contact, eye contact

**Inhalation:** Wood 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.

OSHA Classification: Wood dust is a hazardous substance as defined by the Hazard Communication Standard 29CFR 1910.1200

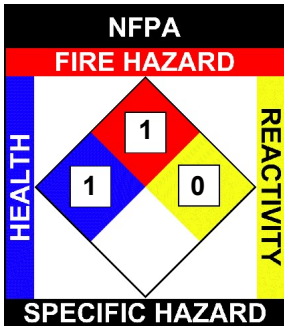
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NFPA: Health = 1, Fire = 1, Reactivity = 0, Specific Hazard = n/a



3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

| Cas#    | %           | Chemical Name                                 |
|---------|-------------|---|
| 0       | Proprietary | Hydrocolloidal Based Polysaccharide Tackifier |
| 9000300 | Proprietary | Guar Gum                                      |

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. In high dust levels wear dust mask.
- 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

- Flammability:** Combustible product
  - Flash Point:** Not applicable
  - Flash Point Method:** Not applicable
  - Autoignition Temp:** 200-260°C (400-500°F)
- Conditions to avoid: In contact with flames or hot surfaces  
Flammable- Extinguish with water; same as a wood fire

6 ACCIDENTAL RELEASE MEASURES

Scoop up product. Wear goggles and respirator if dust is produced in unventilated areas. Wet product will be slippery.

7 HANDLING AND STORAGE

- Handling Precautions:** Clean up areas where dust settles. Minimize blowdown or other practices that generate high airborne dust concentrations.
- Storage Requirements:** Store in a cool, dry place. Keep away from sources of ignition.



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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** None required for outdoor mixing and application. Use dust collection system for indoor handling operations.

**Personal Protective Equipment:** Eye Protection: Wear goggles when emptying bags and during other operations where there is a risk of dust entering the eyes.  
 Gloves: Leather, plastic or rubber gloves could be worn to minimize skin irritation.  
 Respirators: When handling methods generate dust at concentrations that exceed occupational exposure limits, wear a NIOSH approved respirator. A fabric respirator or a facepiece respirator with dust cartridges will generally provide adequate protection.  
 Footwear: The product is slippery when wet. Wear appropriate footwear.

9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Dyed green wood fibers - Pine & mixed hardwoods

**Physical State:** Wood Fibers **Odor:** Mild wood odor

**Spec Grav./Density:** Lighter than water

**Vapor Pressure:** N/A

10 STABILITY AND REACTIVITY

**Chemical Stability:** Stable product

**Conditions to Avoid:** Contact with strong acids and oxidizers may generate heat. Product may ignite at temperatures in excess of 200°C (400°F).

**Materials to Avoid:** Strong acids and oxidizers

**Hazardous Polymerization:** Will not occur.

11 TOXICOLOGICAL INFORMATION

EFFECTS OF CHRONIC EXPOSURE:

**Inhalation:** Frequent and repeated exposure to wood dust is associated with an increased risk of developing nasal cancer.

**Skin Contact:** Although rare, wood dust may cause dermatitis in sensitized people.

Occupational Exposure Limits:

Wood dusts- All other species: ACGIH (2007): TLV-TWA 1 mg/m<sup>3</sup> (Inhalable fraction); A4

Particulates Not Otherwise Regulated (PNOR): OSHA: PEL-TWA 15 mg/m<sup>3</sup> (Total Dust); 5 mg/m<sup>3</sup> (Respirable fraction)

**Irritancy:** Wood dust is a mild irritant

**Sensitization:** Some wood dusts may cause allergic skin reactions

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**ECOLOGICAL INFORMATION**

Guar Gum (CAS# 9000-30-0) is listed as an inert ingredient permitted for use in nonfood use pesticide products by EPA. It is also classified under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as a minimal risk inert substance (List 4A) meaning that as a pesticide, Guar Gum is considered by the EPA to pose little or no risk to humans or the environment. The US Department of Agriculture (USDA) National Organic Program (NOP) also allows the use of Guar Gum in a variety of applications, but primarily as a pesticide in organic production operations. Finally, Guar Gum is listed on the Generally Recognized as Safe (GRAS) list by the Food and Drug Administration (FDA).

48-hr  $LC_{50}$  = >100% for *Daphnia magna* when runoff generated using ASTM D7101 (2"/hr rainfall rate) was tested according to EPA-821-R-02-012.

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**DISPOSAL CONSIDERATIONS**

Normally can be disposed of as a wood residue. Ensure disposal is in compliance with local, provincial (state), and federal regulations.

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**TRANSPORT INFORMATION**



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15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Hydrocolloidal Based Polysaccharide Tackifier (0) [Proprietary]

Guar Gum (9000300) [Proprietary] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

COMPONENT / (CAS/PERC) / CODES

\*Guar Gum (9000300/ N/A%) TSCA

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List

NRC = Nationally Recognized Carcinogens

OSHA = 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

NJEHS = NJ Extraordinarily Hazardous Substances

NJHS = NJ Right-to-Know Hazardous Substances

OSHAPSM = OSHA Chemicals Requiring process safety management

SARA313 = SARA 313 Title III Toxic Chemicals



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TSCA = Toxic Substances Control Act

|    |                          |
|----|--------------------------|
| 16 | <b>OTHER INFORMATION</b> |
|----|--------------------------|

**Disclaimer:**

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

# EcoMatrix™

## Stabilized Mulch Matrix (SMM)

A one-step, hydraulically-applied erosion control system

### Get more build out of every Eco bag

Profile's Thermally Refined® wood fibers maximize coverage and performance. Our processing technology produces fibers that hold 50% more water than competitive wood fiber products. Atmospherically refined wood fiber simply doesn't provide as much coverage per bag as the Eco line.

- EcoMatrix™ is formulated to hold soil in place immediately upon application, even during the drying and curing stage
- Bonding compounds are cross-linked for mat integrity that saves you soil and money
- EcoMatrix is pre-mixed for maximum wet strength — our blending process ensures non-toxic bonding agents and soil stabilizers are uniformly mixed in the long, wood fiber
- It is sprayed on like a hydromulch, allowing the wood fibers to naturally interlock, and when dry, the matrix forms a porous, breathable, erosion-resistant mat that completely biodegrades over time
- Its green, rich color assists in even application and also allows the mulch matrix to blend with the environment
- No netting, staples or lifting
- Non-toxic and environmentally safe
- Typically used on roadside projects, pads and slopes to a maximum grade of 2H:1V and up to a maximum slope length of 50 feet (without slope interruption devices)
- Use approved mechanically agitated equipment for optimum pumping and application performance
- EcoMatrix™ functional longevity is 3 to 6 months



#### Product Composition:

Dry Organic Matter – 83% ± 4%  
 Moisture Content – 12% ± 3%  
 Proprietary Crosslinked Hydro-Colloid Based Tackifier – 5% ± 1%  
 (40) 50-lb bales per pallet

| Slope Gradient/Condition | Rate         |
|--------------------------|--------------|
| ≤ 4H:1V                  | 2500 lb/acre |
| > 4H:1V and ≤ 3H:1V      | 3000 lb/acre |
| > 3H:1V and ≤ 2H:1V      | 3500 lb/acre |

