

MSDS **Material Safety Data Sheet**

PROFILE Products, LLC



HydroSpray® Wood/Tack

MSDS Number: CON027

Revision Date: 6/29/09

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

PROFILE Products, LLC
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SUITE 440
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Contact:

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Product Name: HydroSpray® Wood/Tack
Revision Date: 6/29/09
MSDS Number: CON027
CAS Number: Not applicable
Product Use: Erosion control mulch for hydraulic seeding

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

2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, skin contact, eye contact
Target Organs:
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.

NFPA-ratings (scale 0-4): Health = 1, Fire = 2, Reactivity = 0

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Perc.	Chemical Name
9000300	Proprietary	Guar gum

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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

Flash Point: Not applicable

Flash Point Method: Not applicable

Autoignition Temperature: 200-206°C (400-500°F)

Flammability Classification: Combustible product

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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dyed green wood fibers - Pine & mixed hardwoods	Boiling Point:	
Physical State:	Wood Fibers	Freezing/Melting Pt.:	
Odor:	Mild wood odor	Solubility:	
pH:		Spec Grav./Density:	lighter than water
Vapor Pressure:	N/A		
Vapor Density:			

10 STABILITY AND REACTIVITY

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 (incompatibility):	Strong acids and oxidizers
Hazardous Decomposition products:	
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/m³ (Inhalable fraction); A4

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

Irritancy: Wood dust is a mild irritant

Sensitization: Some wood dusts may cause allergic skin reactions



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12 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.

96-hr Survival $LC_{50} = >100\%$ for *Daphnia magna* when runoff generated using ASTM D7101 (4"/hr rainfall rate) was tested according to EPA-821-R-02-012.

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

DOT Class: Not regulated #



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15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Guar gum (9000300 n/a%) TSCA

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
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

TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

END OF MSDS DOCUMENT



Hydro-Spray®

EROSION CONTROL PRODUCTS

**Hydraulic Mulch
Blankets
Mulching Granules
Hydraulic Additives**



HYDRO-SPRAY® FAMILY OF MULCH PRODUCTS

Product Performance

Effective erosion control and soil solutions are our goal. Hydro-Spray® has an established group of products and technologies that significantly advance erosion control performance and complement all hydraulic applications. These products include a variety of hydraulic mulches, Mechanically-Bonded Fiber Matrix™, soil and fiber amendments and straw and fiber mulch binders.

Hydro-Spray products are suitable for a wide range of applications including:

- Turf Establishment
- Landfills
- Recreational Locations
- Golf Courses
- Highway Work
- Airports

HYDRO-SPRAY® WOOD

100% wood fiber holds twelve times its weight in moisture, therefore enhancing seed survival rates. Hydro-Spray Wood fiber, when mixed with seed and fertilizer, forms a homogeneous slurry that ensures evenly distributed strands of grass. Hydro-Spray Wood fiber provides maximum soil coverage with its 100% defibrated wood content.

Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000–2500 lbs per acre.

HYDRO-SPRAY® WOOD with TACK

100% premium defibrated wood fiber combined with tackifier therefore reducing friction in the hose and increases shooting distance. Hydro-Spray Wood with Tack holds 13 times its weight in water, improving turf establishment while controlling erosion immediately after application, no cure time required!

Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000–2500 lbs per acre.



CELLULOSE

100% Cellulose, ideal for hydro-seeding, tacking straw and hay mulch. *Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000 lbs per acre.*

CELLULOSE with TACK

100% Cellulose, combined with 3% premixed tackifier and packaged in a 50 lb loose bale. This 50 lb loose density bale breaks up faster, absorbs water rapidly, improves machine performance and holds mulch to the soil surface.

Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000 lbs per acre.



HYDRO-SPRAY® BLEND

Combination of 70% wood fiber with 30% cellulose manufactured from the highest quality materials. Hydro-Spray Blend enhances water holding capacity, reduces soil erosion while improving turf coverage and is easier to pump.

Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000–2500 lbs per acre.

HYDRO-SPRAY® BLEND with TACK

Combination of 70% wood fiber and 30% cellulose, premixed with 3% polymer tackifier. Hydro-Spray Blend with Tack reduces friction in the hose, increasing shooting distance and controls erosion without having to cure.

Packaging: 50 lb bale; Shipment: 2000 lb pallet; Typical Application Rate: 4 to 1 slope – 2000–2500 lbs per acre.

HYDRO-SPRAY® BFM (Bonded Fiber Matrix)

Hydro-Spray BFM contains a combination 90% defibrated premium wood fiber with a 10% combination of cross-linked hydro-colloid tackifier, super absorbent co-polymer gel and poly-acrylamides. This formulation flocculates and anchors the fiber mulch matrix to the soil surface, as well as retains more moisture to improve turf establishment. This product is fully biodegradable.

Packaging: 50 lb bale; Shipment: 2000 lb pallet – 40 bales per pallet; Typical Application Rate: 4 to 1 slope – 2000–2500 lbs per acre.

For Optimum Results Use

ProPlus™
Hydro Mulching Solutions

Added Value in Every Tank



- **ProPlus™ hydraulic mulch additives** give you more ingredients to make mulch shoot farther, spread more evenly and look better.
- **Helps mulch bond to soil** more securely, seed germinate faster and plants develop deeper roots.
- **Industry's most comprehensive line** of hydraulic mulch additives.

KING OF THE HILL

- **Lightweight Design** – Half the weight of excelsior mats, Futerra® goes down quickly with less man hours per square yard.
- **Bonds to Soil** – Prevents under rilling blanket washouts and seed migration.
- **Accelerated Germination** – Superior seed establishment results as compared to other rolled blanket growing mediums.
- **Degrades Completely** – Fully bio/photodegradable so there's nothing to pick up after the job.



Packaging: 40" x 135' roll, 82" x 135" roll; Shipment: 40" - 18 lbs, 82" - 28 lbs

**NEW
FORMULA!**



Packaging: 40 lb bag; Shipment: 1920 lb pallet

JET SPRAY® with FiberMax™

- **Pourable fiber mulch flake** that loads 95% faster than any type of baled fiber mulch product.
- **Contains 50% more polyester fibers** to increase the mechanical bond within the fiber mulch matrix.
- **Improved erosion control performance** enhances seedling establishment.
- **Reduced labor** cost from fast loading fiber mulch flakes makes your business more profitable.

SEED AIDE® MULCH GRANULES

- **Expanding mulching granules** protect seed from washing away.
- **Hold water & nutrients** to improve seed germination.
- **Organic tackifier** reduces soil erosion and water runoff.
- **Bio-stimulant** increases root mass and top growth.
- **Easy to apply** by hand, drop spreader or a large opening broadcast spreader.

Seed Aide®



Packaging: 50 lb bag; Shipment: 2000 lb pallet

PROPLUS™ ACCESSORIES AND ADDITIVES



NEUTRALIME™ LIQUID OR DRY

Super high concentrate of the purest form of limestone. Dry formula extends effectiveness from 12 to 18 weeks. Increasing the pH to 6.0+ dramatically improves the nutrient uptake efficiency of the plant. Independent lab analysis showed NeutralLime™ raised the pH by 1.0 point within 10 days of soil treatment. *Liquid Packaging: 2-2 1/2 gal jugs per case; Shipment: 24 cases per pallet; Dry Packaging: 4-10 lb bags per case; Shipment: 48 cases per pallet; Packaging: 40 lb bag; Shipment: 50 bags per pallet.*

JUMPSTART™ 5

Combination of five active ingredients, including seaweed extract, poly-acrylamide, beneficial bacteria, humic acid and co-polymer gel. Increases root mass and top growth of vegetation while enhancing the plant's stress tolerance to heat, cold, salt and drought. *Packaging: 4-10 lb bags per case; Shipment: 48 cases per pallet; Packaging: 40 lb bag; Shipment: 50 bags per pallet.*

FIBERMAX™

Fiber combination of 1/2- to 3/4-inch long polyester fibers, specially cut and treated to disperse rapidly in water. FiberMax™ increases the mechanical bond and shooting distance of all types of hydraulic mulch. FiberMax increases the water holding spaces within the fiber mulch matrix, therefore increasing the water holding capacity of all types of hydraulic mulches. *Packaging: 6-5 lb bags per case; Shipment: 60 cases per pallet.*

FIBERLOCK™

Uniquely manufactured polyester fibers, exactly 1/2 inch in length and individually crimped to exponentially increase the mechanical bond within all types of hydraulic mulches. FiberLock's unique crimp interlock with each other allowing the fiber mulch matrix the ability to withstand higher rates of surface flow energy - (Patented). *Packaging: 10 lb case; Shipment: 72 cases per pallet.*

AQUAGEL™ A, B, C, D

Co-polymer of acrylamide, a super absorbent holding up to 400 times its weight in distilled water. Ideal for laying sod, hydro-seeding, landscaping and as a root dip for transplants. AquaGel™ is available in four different particle sizes. *Packaging: NEW 2-16 lb jugs per case; Shipment: 36 cases; Packaging: 25 lb bag; Shipment: 80 bags per pallet; Shipment: 80 lb drum.*

SLIKCOLOR™

Additive for hydro-seeding to enhance the color for great curb appeal. Improves visual metering when applying seed and fertilizer alone. Apply at a rate of 1 lb per 1500 lbs of fiber mulch - 3 lbs per acre for visual metering. *Packaging: NEW Water Soluble Bags 11-1 lb bags per case; 2-11 lb jugs per case; Shipment: 36 cases per pallet.*

GELTACK™

Easy to use tackifier, packaged in a pourable 11 lb plastic (waterproof) container. *Packaging: 2-11 lb jugs per case; Shipment: 36 cases per pallet; Application Rate: Modest to 4 to 1 slope - 11 lbs per acre.*

TACKDOWN™

Water emulsified acrylic resin designed for straw tacking, dust control and bark mulch stabilization. Typical dust control application: 55 gallons of seal per acre. Seal can be applied with a backpack sprayer to anchor straw mulch. *Packaging: 2-2 1/2 gal jugs per case; Shipment: 36 cases per pallet.*

MPT™ TACKIFIER

A combination of poly-acrylamide and hydro-colloid polymers. MPT™ is highly viscous and dries to form a strong chemical bond. Ideal for fiber mulch binding, straw and hay mulch binding. *Packaging: 4-12 lb bags per case, 50 lb bags; Typical Application Rate: 4 to 1 slope - 100 lbs per acre.*

STRAW NETTING

Straw netting is used extensively along highways and urban streets to secure straw mulch from blowing away. *Packaged: 84" x 3,000 foot roll - 79.2 lbs, 42" x 3000 foot roll - 39.6 lbs.*

FUTERRA® STAPLE GUN, BIODEGRADABLE STAPLES & STAKES

Ecologically safe and completely biodegradable, Futerra® Staples and Futerra® Stakes are the first choice wherever safety and environment are the priority.

METAL ANCHORING STAPLES

High strength 4 and 6 inch steel staples used to secure erosion control blankets, straw netting and sod. *Packaging: 1000 staples per box; Shipment: 4" 100 cases per pallet, 6" 60 cases per pallet.*

Rates of Application

Hydro-Seeding — Soil Test pH range

	Liquid	Dry
< 5.00	10 gallons/acre – 120 lbs/acre	
< 5.5 but greater than	5.15 gallons/acre – 80 lbs/acre	
< 6 but greater than 5.6	2.5 gallons/acre – 40 lbs/acre	

Rates of Application

Hydro-Seeding and Straw Mulching

Organic matter soil test < 1%	50 lbs/acre
Organic matter soil test > 1%	25 lbs/acre

Rates of Application

Fiber Mulch Binding

Greater than 2:1 slope	40 lbs/acre
3:1 to 2:1 slope	30 lbs/acre
Modest to 4:1 slope	20 lbs/acre

Rates of Application

Fiber Mulch Binding

Greater than 3:1 slope	20 lbs/acre
5:1 to 3:1 slope	10 lbs/acre
Moderate to 5:1 slope	20 lbs/acre

Rates of Application

Series 500A-Soil Amending Media Containers & Beds

1.5 lbs per cubic yard for heavy clay, 2.0 lbs per cubic yard for combination soil, 2.5 lbs per cubic yard for sandy soil

Series 500B-Laying Sod and Soil Amendments

50 lbs per acre for laying sod

Series 500C-Hydro-Seeding and Bare Root Plantings

1 lb per 40 gallon water dip for transplants

Series 500D-Seed Coat, Hydro-Seeding and Transplants

1 lb per 100 lbs of seed for seed coat, 1 lb per 40 gallons of water for transplants, 10 lbs per acre for hydro-seeding

