

**Safety Data Sheet – SDS**

**Product Type:** Wood Fiber Blend Hydraulic Mulch  
**Revision Date:** May 2015

**1. Identification and Product Identification**

Product Name: Enviro-Fibers® Enviro-Mix® Hydraulic Mulch  
 Company Name: Central Fiber LLC  
 4814 Fiber Lane  
 Wellsville, KS 66092  
 Emergency Contact: 785-883-4600  
 Recommended Use: Hydraulic mulch used for soil erosion control and hydroseeding.  
 Restrictions: None known

**2. Hazardous Identification**

DANGER! THIS PRODUCT MAY CONTAIN WOOD DUST.

WOOD DUST MAY CAUSE NASOPHARYNGEAL CANCER BY PROLONGED INHALATION. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. MAY CAUSE AN ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY IRRITATION. CAUSES EYE IRRITATION. MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR (DURING PROCESSING).

PRECAUTIONS: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Take off contaminated clothing and wash before reuse. Avoid breathing dust. In case of inadequate ventilation, wear respiratory protection. Keep away from sparks/open flames. No smoking.

*Overexposure to wood dust from this product under normal use, handling, and storage is not anticipated.*



**3. Composition, Information on Ingredients**

| CAS NUMBER              | NAME                            | PERCENT |
|-------------------------|---------------------------------|---------|
| N/A                     | Wood Fiber from Soft/Hard Woods | >70%    |
| 9004-34-6               | Cellulose Fiber                 | <30%    |
| 41272-40-6 or 3844-45-9 | Green Dye/Blue Dye              | <0.1%   |

**4. First-Aid Measures**

IF INHALED: And breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms following removal to fresh air, call Doctor or other qualified medical professional.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.  
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.  
 IF EXPOSED OR CONCERNED: Get medical advice/attention.

1525 WAYNESBURG DR. SE  
 CANTON, OH 44707  
 PHONE: (330) 452-2630  
 FAX: (330) 452-2644

4814 FIBER LANE  
 WELLSVILLE, KS 66092  
 PHONE: (785) 883-4600  
 FAX: (785) 883-4429

2340 E ERWIN  
 TYLER, TX 75702  
 PHONE: (903) 593-4600  
 FAX: (903) 593-4606

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**5. Fire-Fighting Measures**

Explosion: Fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard. Avoid generating dust.  
 Extinguish media: Water spray, CO<sub>2</sub>.

**6. Accidental Release Measures**

Dust: Avoid generating dust near an ignition source.  
 Spill: Remove with explosion-proof vacuum or sweep up excess material while avoiding generating dust.  
 Disposal: In accordance with federal, state, and local refuse regulations

**7. Handling and Storage**

Avoid dust formation and accumulation with routine housekeeping. Avoid use around or near ignition sources. Avoid eye contact. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of wood dust. Store in a dry location, avoid moisture.

**8. Exposure Controls / Personal Protection**

| Component                   | NIOSH/ACGIH TLV                               | OSHA PEL   |
|-----------------------------|---|--|
| Cellulose                   | TLV-TWA 10mg/m <sup>3</sup> Total             | PEL-TWA 15mg/m <sup>3</sup> Total<br>PEL-TWA 5mg/m <sup>3</sup> Respirable |
| Wood Dust, soft or hardwood | TLV-TWA 1mg/m <sup>3</sup> Inhalable fraction | PEL-TWA 15mg/m <sup>3</sup> Total<br>PEL-TWA 5mg/m <sup>3</sup> Respirable |

Respiratory Protection: Use NIOSH approved respiratory masks  
 Eye Protection: Use goggles or eye glasses  
 Hand Protection: If sensitive, wear gloves  
 Other Protective Clothing: None  
 Ventilation: Normal & ventilation  
 Work/Hygiene: Practices standard hygiene

Use in a processing environment designed to avoid generating dusts, which is free of ignition sources.

**9. Physical and Chemical Properties**

Flash Point: Not Applicable  
 Boiling Point (F): Not Applicable  
 Vapor Pressure (mm Hg): Not Applicable  
 Vapor Density: Not Applicable  
 Solubility in Water: Insoluble, Dispersible  
 Bulk Density (packaged product): 16-18lb/ft<sup>3</sup>  
 Reactivity in Water: Dispersible  
 Melting Point: Not Applicable

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Appearance & Odor: Fibrous material, green or blue-green in color. No discernible odor.  
 LEL/UEL: 40,000 mg of dust per m<sup>3</sup> is considered the LEL for wood dust.

**10. Stability & Reactivity**

Stability: Stable  
 Conditions to Avoid: Avoid extreme heat and flame  
 Hazardous Decomposition: May produce carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**11. Toxicological Information**

| Component                       | LD50 Oral | LD50 Dermal | LC50 Inhale (dust) |
|---------------------------------|-----------|-------------|--------------------|
| Wood Fiber from Soft/Hard Woods | Non-toxic | Non-toxic   | NAP                |
| Cellulose                       | Non-toxic | Non-toxic   | Not-toxic          |

May cause irritation to eye and respiratory system. Persons with respiratory problems should avoid breathing dust. Can cause irritation to mucous membrane and upper respiratory system. Remove to fresh air.

Carcinogenicity Listing: Wood Dust

NTP: Wood Dust, Known Human Carcinogen.

An association between wood dust exposure and cancer of the nasal cavity has been observed in many cases reports, cohort studies, and case-control studies that specifically addressed nasal cancer. Strong and consistent association with cancer of the nasal cavities and paranasal sinuses were observed both in studies of people whose occupation are associated with wood dust exposure and in studies that directly estimated wood dust exposure. This classification is based primarily on increased risk in occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence for cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum. There is inadequate evidence for the carcinogenicity of wood dust from studies in experimental animals according to NTP.

IARC Monographs: Wood Dust, Group 1 – Carcinogenic to Humans

This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma to the nasal cavities and paranasal sinuses. IARC did not find evidence of an association between occupational exposure to wood dust and cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum.

***Overexposure to wood dust from this product under normal use, handling, and storage is not anticipated.***

**12. Ecological Information**

Wood fiber slowly biodegrades in water, is not eco-toxic and persists for longer periods of time in arid soils. The green or blue dye used in this product is not believed to be eco-toxic at concentrations found in this product.

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|-----------------------|----------------------------------|
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| <b>Revision Date:</b> | May 2015                         |

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**13. Disposal Considerations**

No special requirements. Follow applicable federal, state, and local regulations.

**14. Transportation Information**

Not regulated as a hazardous material for transport.

**15. Regulatory Information**

|                       |   |
|-----------------------|---|
| WHMIS:                | Wood dust – controlled Product: D2A – wood dust: IARC Group 1.<br>Cellulose fiber - Not considered a controlled product or not listed.  |
| TSCA:                 | Not applicable.   |
| State Right-to-Know:  | Wood dust - California Proposition 65: wood dust is a substance known to cause cancer. PA: Wood dust appears on Pennsylvania’s Appendix A., Hazardous Substance List. NJ: wood dust appears on New Jersey’s Environmental Hazardous Substance List.<br>Cellulose fiber - California Proposition 65. PA, MA, NJ not listed or regulated. |
| SARA 313 Information: | This product does not contain any chemical components that exceed the threshold (de minimis) reporting levels established by SARA Title III, section 313 and 40 CFR section 372.  |
| CERCLA:               | Not applicable.   |
| DSL:                  | Not applicable. Cellulose is on the Domestic Substance List.  |
| OSHA:                 | Wood fiber per se is not hazardous under the criteria of the federal OSHA Hazard Communication Standard (29 CFR 1910.1200). However, wood dust may be hazardous and hence is included under 1910.1200.<br>Cellulose dust is a regulated hazard under the OSHA Hazard Communication Standard (29 CFR 1910.1200).                         |
| REACH:                | Not applicable.   |

**16. Other Information**

See NFPA 654 for safe handling of combustible particulate solids.

Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patents or in violation of any laws or regulations. It is the user’s responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

## Specifications

|                       |  |
|-----------------------|--|
| <b>Product Name:</b>  | Enviro-Mix® Wood Fiber Blend Hydraulic Mulch |
| <b>Revision Date:</b> | May 2013                                     |

### 1. Product Identification

Enviro-Mix Wood Fiber Blend Hydraulic Mulch (HM) is manufactured from a combination of thermo-mechanically processed 100% virgin wood fiber and high quality post-consumer recycled cellulose fiber. It is non-toxic, 100% biodegradable and contaminant free. Applying the HM forms a porous bond with the soil surface, enhancing seed germination and growth.

### 2. Mixing

Mix Enviro-Mix Wood Fiber Blend Hydraulic Mulch with approximately 100 gallons of water per 50 pound bag. Seed, fertilizer, tackifier and soil amendments may be added at specified rates for a one-step installation of hydro seeding and erosion control projects. Loading rates should be per the machine manufacturer’s guidelines.

### 3. Application

Enviro-Mix Wood Fiber Blend Hydraulic Mulch can be applied after adding seed and fertilizer or as a separate application. Good soil preparation is essential. Slurry containing seed and fertilizer is best applied from the hose by pointing the nozzle (fan-type / 50° tip recommended) straight down to drive the material into the soil. The application should then be finalized by allowing the material to “rain” on the surface to achieve approximately 75% coverage. Use cross-directional application of material to achieve optimal surface coverage.

| Recommended Application Rates* |                |             |
|--------------------------------|----------------|-------------|
| Slope Gradient                 | US             | Metric      |
| Moderate                       | 1500lbs / Acre | 1700kg / Ha |
| 4:1 to 3:1                     | 2000lbs / Acre | 2300kg / Ha |

*\*Rates represent typical site conditions; Not recommended for channels or high concentrated flow areas*

### 4. Equipment

Enviro-Mix Wood Fiber Blend Hydraulic Mulch is mixed and applied with a standard hydro seeding machine. *Note:* A mechanically agitated hydro seeding machine is recommended. Follow equipment manufacturer’s installation instructions and recommendations.

### 5. Product Composition / Property Values

|   |                              |
|---|------------------------------|
| Thermo-Mechanically Processed Virgin Wood Fiber | 70% (minimum)                |
| Post-Consumer Recycled Cellulose Fiber          | 30% (maximum)                |
| Moisture Content                                | 12% (±3%)                    |
| EcoToxicity                                     | Non-Toxic (EPA 821/R-02/012) |
| Water Holding Capacity                          | 1100% (minimum)              |
| Applied Color                                   | Green                        |
| Functional Longevity                            | Up to 3 Months               |
| Biodegradability                                | 100%                         |

### 6. Packaging and Shipping

|                             |   |
|-----------------------------|---|
| Bag Dimensions, Net Weight  | 18" x 10" x 26", 50lbs (UV / Weather-Resistant Plastic)                 |
| Pallet Dimensions, Quantity | 46" x 46" x 101", 40 Bags (UV / Weather-Resistant Plastic Stretch-Wrap) |
| Full Truckload              | 22 pallets, 880 Bags  |

### 7. Technical Assistance

Technical Department: (800) 654-6117