



SAFETY DATA SHEET

Rainier Fiber™ Stabilized Mulch Matrix

Effective Date: June 1, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: *Rainier Fiber™ Stabilized Mulch Matrix*
CHEMICAL NAME/SYNONYM: Wood Fiber Mulch with a Tackifier Mixture
Thermo-Mechanical Wood Pulp with a Tacifier Mixture

MANUFACTURER: Rainier Veneer, Inc.
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RECOMMENDED USE: Hydroseeding Mulch for Erosion Control and Revegetation.

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview: This product does not contain regulated levels of hazardous ingredients as defined in OSHA STANDARD 29 CFR 1910.1000.

Rainier Fiber™ Stabilized Mulch Matrix is a 100% wood fiber treated with green liquid dye for application control. A tackifier is blended with the fiber for increased erosion control. *Rainier Fiber™ Stabilized Mulch Matrix* mulch presents little or no hazard to humans and has low acute oral and dermal toxicity. This product does not present any unusual hazard if involved in a fire.

OSHA HAZARD CLASSIFICATION: WOOD DUST – Category 3

OSHA HAZARD PICTOGRAM:



SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H320: Dust may cause eye irritation from prolonged exposure.
H335: Dust may cause respiratory irritation from prolonged exposure.

PRECAUTIONARY STATEMENTS:

P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust. Use face mask
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to remove – continue rinsing.

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PRECAUTIONARY STATEMENTS: (cont.)

P370+P378: In case of fire use water to extinguish.

P391+P501: Collect spillage and use or dispose of contents/container in accordance with local regulations. .

Other hazards which do not result in classification: None

CAS #:..... None
OSHA TWA PEL-STEL:.....10mg/m³
ACGIH TLV:.....5 mg/m³ (respirable)

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence do not require reporting in this section. Occupational exposure limits are listed in Section 8.

Thermo-mechanically Refined Wood Fiber @ 12% Moisture..... >94.5%
Basic Green #4:..... <0.5%
CAS#..... 41272-40-6
Polysaccharide & Cross-linked Tackifier:..... 5%
CAS#..... 9000-30-0

SECTION 4: FIRST AID MEASURES

Material is primarily a Nuisance Dust

Routes of Entry: Inhalation, skin contact, eye contact

Effect of Acute Exposure:

Overexposure: May cause irritation to eyes and respiratory system.

Persons with respiratory problems should avoid breathing dust. Use a dust mask.

Inhalation: Can cause irritation to mucous membrane and upper respiratory system. Remove to fresh air.

Ingestion: May cause vomiting or diarrhea.

Eyes: In case of eye contact, flush thoroughly with clean water.

Skin: In case of broken skin, wear gloves. Wash dust from skin with soap and water.

Carcinogenicity Listings:

NTP: not listed

IARC Monographs..... not listed

OSHA: not listed

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point >550F

Flammability Limits: LEL Not Applicable See Unusual Fire and Explosion Hazards below.

UEL Not Applicable

Extinguishing Media..... Water: **Caution: Wet product will be very slippery.**

Special Fire Fighting Procedures None. May produce carbon monoxide, carbon dioxide and aldehydes.

Unusual Fire and Explosion Hazards A concentration of 40,000 mg/m³ is often used as the lower explosive limit for wood dusts in the presence of a flame or spark. Limit depends on moisture content and particle diameter.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General: *Rainier Fiber™ Stabilized Mulch Matrix* is biodegradable and will not cause damage to trees or vegetation.

Land Spill: Clean up spilled material. Dispose in accordance with Federal, State and local regulations. No personal protective equipment is required.

Water Spill: *Rainier Fiber™ Stabilized Mulch Matrix* mulch will not cause contamination of local waters. The mulch is non-toxic and not harmful to animal, aquatic, fish or plant life. **Caution: Wet product will be very slippery.**

SECTION 7: HANDLING AND STORAGE

Storage: Ambient dry indoor conditions are recommended. If outside storage, cover to protect from rain.. Do Not store near heat or flame source. No smoking in the storage area. No special handling precautions required. To maintain package integrity, stock should be used on a "first in, first out" basis.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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 Indoors:.....Normal ventilation. If exhaust ventilation is used to keep dust concentrations below permissible levels, exhaust should be directed to a dust collection system.
Work/Hygiene Practices:.....Follow good hygiene practice.

Occupational Exposure Limit: Wood Dust:

OSHA: PEL-STEL 10 mg/m³ **ACGIH:** TLV 5 mg/m³ (respirable) **Cal OSHA:** PEL 5 mg/m³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor.....Finely divided green fibers, slight wood odor
Boiling Point (F).....Not Applicable
PH4.9
Flash Point >550 F
Solubility in Water Insoluble, but Dispersible
Specific Gravity (H₂O=1) 0.015-0.025
Relative Density.....Not Applicable
Vapor Density Not Applicable
Vapor Pressure (mm Hg) Not Applicable
Melting Point..... Not Applicable
Evaporation Rate Not Applicable
Flammability.....Solid. Initial ignition, then slow smoldering embers.
Flammability Limits.....LEL Not Applicable. See Unusual Fire and Explosion Hazard, Section V.
Auto-ignition Temperature.....Not Available
Decomposition Temperature.....Not Applicable
Viscosity.....Not Applicable. Material is a solid.

SECTION 10: STABILITY AND REACTIVITY

Stability Stable
Conditions to Avoid: Material is organic, therefore combustible.
Avoid extreme heat and flame and contact with oxidizing agents.
Hazardous Decomposition: May produce carbon monoxide, carbon dioxide and aldehydes.
Hazardous Polymerization..... Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Rates of Exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because *Rainier Fiber™ Stabilized Mulch Matrix* mulch is not absorbed through intact skin.
Inhalation: *Rainier Fiber™ Stabilized Mulch Matrix* mulch is not likely to be hazardous by inhalation.
Eye Contact: *Rainier Fiber™ Stabilized Mulch Matrix* mulch is non-irritating to eyes in normal industrial use.
Skin Contact: *Rainier Fiber™ Stabilized Mulch Matrix* mulch does not cause irritation to intact skin.
Ingestion: Products containing *Rainier Fiber™ Stabilized Mulch Matrix* mulch are not intended for ingestion. *Rainier Fiber™ Stabilized Mulch Matrix* mulch has a relatively low acute toxicity. Swallowing large amounts may cause gastrointestinal symptoms.
Cancer: *Rainier Fiber™ Stabilized Mulch Matrix* mulch is not considered a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

The inherent design of *Rainier Fiber™ Stabilized Mulch Matrix* is for use in revegetation and is not harmful to ecological systems. Refer to Section 6 for clean-up in case of accidental spill.

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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Guidance: Small quantities of *Rainier Fiber™ Stabilized Mulch Matrix* mulch can usually be disposed of at Municipal Landfill sites. No specific disposal treatment is required, but refer to state and local regulations for applicable site-specific requirements. Tonnage quantities of product are not recommended to be sent to landfills. Such product should, if possible, be re-used for an appropriate application.

California Hazardous Waste Designation: California identifies substances with acute LD50's less than 5000 mg/kg as "hazardous wastes". *Rainier Fiber™ Stabilized Mulch Matrix* mulch is therefore not a "hazardous waste" if spilled in California. Refer to Regulatory Information for additional information.

SECTION 14: TRANSPORT INFORMATION

DOT Hazardous Material Classification: *Rainier Fiber™ Stabilized Mulch Matrix* mulch is not a U. S. Department of Transportation (DOT) Hazardous Material and is not regulated.

DOT Hazardous Substance Classification: *Rainier Fiber™ Stabilized Mulch Matrix* mulch is not a DOT Hazardous Substance and is not regulated.

International Transportation: *Rainier Fiber™ Stabilized Mulch Matrix* mulch has no U. N. Number, and is not regulated under international rail, highway, water, or air transport regulations.

SECTION 15: REGULATORY INFORMATION

National Fire Protection Association (NFPA) Classification:

Health - 0

Flammability - 1

Reactivity - 0*

Hazardous Materials Information Systems (HMIS):

Red: (Flammability) - 1

Yellow: (Reactivity) - 0

Blue: (Acute Health) - 1*

*Chronic Effects

SECTION 16: OTHER INFORMATION

ADDITIONAL INFORMATION

Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS#	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute for Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)

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. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.