



SAFETY DATA SHEET

EFFECTIVE DATE: 12-7-2022

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Stronghold BFM Plus Mulch (Hydroseeding Mulch)

CHEMICAL NAME/SYNONYM: Stronghold BFM Plus Mulch is a registered trademark of Cherokee MFG, LLC. Annually renewable organic fiber, wood cellulose fiber, polysaccharide tackifier
Linum usitatissimum, guar gum based tackifier

MANUFACTURER: Cherokee Manufacturing LLC
ADDRESS: 150 Bridgepoint Drive Suite 200
South Saint Paul, MN 55075

EMERGENCY PHONE: (651) 451-6568

RECOMMENDED USE: Hydroseeding Mulch

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.

Stronghold BFM Plus hydroseeding mulch is a tan, odorless wood cellulose fiber material . This product does not present any unusual hazard if involved in a fire. Stronghold BFM Plus mulch presents little or no hazard (to humans) and has low acute oral and dermal toxicity.

OSHA HAZARD CLASSIFICATION:

OSHA HAZARD PICTOGRAM:



SIGNAL WORD: WARNING

HAZARD STATEMENTS: POTENTIAL HEALTH EFFECTS

Inhalation	May cause mechanical irritation.
Skin Contact	Not irritating. Skin absorption not likely, May cause slight transient irritation.
Eye Contact	Not irritating. May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.
Ingestion	Not harmful.
Carcinogenicity	No information was located. Teratogenicity/
Embryotoxicity	No information was located.
Reproductive Toxicity	No information was located.
Mutagenicity	No information was located.

PRECAUTIONARY STATEMENTS:

P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local regulation.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

SECTION 4: FIRST AID MEASURES

Inhalation: No special treatment is necessary since Stronghold BFM is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided. If inhaled, move victim to fresh air. Keep at rest in a position comfortable



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for breathing. If breathing is difficult, trained personnel should administer emergency oxygen. Seek medical attention if irritation develops or persists.

Eye Contact: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Skin Contact: Wash affected area with soap and water.

Ingestion: If swallowed, have victim rinse mouth with water. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. If breathing is difficult, trained personnel should administer emergency oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration (AR). Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

General Hazard: None when in solution.

Flash Point:	Not Applicable
Flammable Limits LEL:	1
Flammable Limits UEL:	Not Applicable
Extinguishing Media:	Water
Special Fire Fighting Procedure:	None
Unusual Fire & Explosion Hazards:	None

SECTION 6: ACCIDENTAL RELEASE MEASURES

General: Stronghold BFM Plus is biodegradable and will not cause damage to trees or vegetation by root absorption.

Land Spill: Vacuum, shovel or sweep up Stronghold BFM Plus mulch and place containers for disposal in accordance with applicable state and local regulations. No personal protective equipment is needed to clean up land spills.

Water Spill: Stronghold BFM Plus mulch will not cause localized contamination of surrounding waters. There is no known damage at high concentrations to local vegetation, fish and other aquatic life. This products inherent design is to be used with other compatible revegetation products.

SECTION 7: HANDLING AND STORAGE

Storage Temperature:	Ambient
Storage Pressure:	Atmospheric
Special Sensitivity:	None known.

General: No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity, bags should be handled on a "first-in, first-out" basis.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use local exhaust ventilation to keep airborne concentrations of NaturesOwn® mulch dust below permissible exposure levels.

Personal Protection: Where airborne concentrations are expected to exceed exposure limits, NIOSH/MSHA certified respirators must be used. Eye goggles and gloves are not required for normal industrial exposures, but may be warranted if environment is excessively dusty. **Occupational Exposure Limits:** Stronghold BFM Plus is regulated by OSHA "Particulate Not Otherwise

OSHA: PEL*	15 mg/m ³ total dust and 5 mg/m ³ respirable dust	*PEL = "Permissible Exposure Limit"
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan, fiber
Specific Gravity:	Not Established
Vapor Pressure:	Not Applicable
Solubility in Water:	Insoluble, Dispersible
Boiling Point:	Not Established
Melting Point:	Not Applicable
Ph:	6.0 +/- .5
Viscosity:	Not Applicable
Chemical:	
Fibrous Medium:	Surfactant Less than 2% Greater than 96%

SECTION 10: STABILITY AND REACTIVITY

General: Stronghold BFM Plus is a stable product.

Hazardous Decomposition: Thermal decomposition may produce carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION



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Rates of Exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because Stronghold BFM Plus mulch is not absorbed through intact skin.

Inhalation: Stronghold BFM Plus mulch is not likely to be hazardous by inhalation.

Eye Contact: Stronghold BFM Plus mulch is non-irritating to eyes in normal industrial use.

Skin Contact: Stronghold BFM Plus mulch does not cause irritation to intact skin.

Ingestion: Products containing NaturesOwn® mulch are not intended for ingestion. NaturesOwn® mulch has a relatively low acute toxicity. Swallowing large amounts may cause gastrointestinal symptoms.

Cancer: Stronghold BFM Plus mulch is not considered a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

This products inherent design is used with revegetation and is not harmful to ecological systems.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Guidance: Small quantities of Stronghold BFM Plus 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.

Stronghold BFM Plus 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: Stronghold BFM Plus mulch is not a U. S. Department of Transportation (DOT) Hazardous Material.

DOT Hazardous Substance Classification: Stronghold BFM Plus mulch is not a DOT Hazardous Substance.

International Transportation: Stronghold BFM Plus mulch has no U. N. Number, and is not regulated under international rail, highway, and water 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, ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BUT IT IS NOT GUARANTEED TO BE SO.