



SAFETY DATA SHEET

EFFECTIVE DATE: 12-6-2022

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Stronghold RFM

CHEMICAL NAME/SYNONYM: Hydroseeding Mulch
Annually renewable organic fiber, cellulose fiber, polymer based tackifier

MANUFACTURER: Cherokee Manufacturing
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 RFM mulch is a tan, odorless blend of an annually renewable organic fiber, cellulose fiber and a polymer based tackifier. This product does not present any unusual hazard if involved in a fire. Stronghold RFM 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:

H361: Suspected of damaging fertility or the unborn child.

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

Chemical Name	CAS No.	Concentration %	Other Identifiers
GUAR GUM	9000-30-0	0.1-1.0	

Notes: Concentrations are expressed in % weight/weight

SECTION 4: FIRST AID MEASURES

Inhalation: No special treatment is necessary since Stronghold RFM mulch is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.

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, give two glasses of water to drink and seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

General Hazard: None when in solution.

Flash Point:

Flammable Limits LEL:

Not Applicable

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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 RFM mulch is biodegradable and will not cause damage to trees or vegetation by root absorption.
Land Spill: Vacuum, shovel or sweep up Stronghold RFM 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 RFM 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 Stronghold RFM 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 RFM mulch is regulated by OSHA as "Particulate Not Otherwise Classified" or "Nuisance Dust".

OSHA: PEL*	15 mg/m ³ total dust and 5 mg/m ³ respirable dust	*PEL = "Permissible Exposure Limit"
ACGIH: TLV**	5 mg/m ³ (respirable)	**TLV = "Threshold Limit Value"
Cal OSHA: PEL*	5 mg/m ³	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Natural 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:	Not Applicable
Fibrous Medium:	Surfactant Less than 2% Greater than 96%

SECTION 10: STABILITY AND REACTIVITY

General: Stronghold RFM mulch is a stable product.
Hazardous Decomposition: Thermal decomposition may produce carbon monoxide and carbon dioxide.

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 Stronghold RFM mulch is not absorbed through intact skin.
Inhalation: Stronghold RFM mulch is not likely to be hazardous by inhalation.
Eye Contact: Stronghold RFM mulch is non-irritating to eyes in normal industrial use.
Skin Contact: Stronghold RFM mulch does not cause irritation to intact skin.
Ingestion: Products containing Stronghold RFM mulch are not intended for ingestion. Stronghold RFM mulch has a relatively low acute toxicity. Swallowing large amounts may cause gastrointestinal symptoms.
Cancer: Stronghold RFM mulch is not considered a carcinogen.



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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 RFM 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". Stronghold RFM 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: NaturesOwn® X9000 mulch is not a U. S. Department of Transportation (DOT) Hazardous Material.

DOT Hazardous Substance Classification: NaturesOwn® X9000 mulch is not a DOT Hazardous Substance.

International Transportation: NaturesOwn® X9000 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

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)

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