



Menefee Humate®

A Natural Mineral, Carbon, and Humic Acid Based Soil Conditioner

Humate is a natural trace mineral, carbon and humic acid based granular soil conditioner that acts as an organic chelator and microbial stimulator. It has a unique carbon matrix incorporating a high concentration of trace minerals and organic acids, specifically humic acid, which improves the plant's ability to take in vital nutrients. Menefee Humate has the highest guaranteed level of combined humic acid, organic matter and available carbon on the market.



Listed by the Organic Materials Review Institute (OMRI) for use in production of organic food and fiber.

Guaranteed Product Analysis:

Organic Matter	>85%
Humic Acids	>50.00%
Nitrogen (N)	1.00%
Potassium (K ₂ O)	<0.10%
Phosphate (P ₂ O ₅)	<0.10%
Calcium (Ca)	1.04%
Sulfur (S)	0.18%
Magnesium (Mg)	0.14%
Iron (Fe)	0.30%
Manganese (Mn)	0.0004%
Copper (Cu)	0.0002%
pH	3.4

Menefee Humate will significantly improve poor soils when used in conjunction with a balanced fertilization program. Humic acid increases the water holding capacity of soils; unlocks soil nutrients; breaks up unproductive clay soils; improves soil structure, stress resistance and the effect of fertilizers; enhances root development, seed germination & survival; and promotes residue (thatch) decomposition. Humate will also increase the uptake of proteins and minerals by plants while establishing a desirable environment for microorganism development.



How Does Menefee Humate Work?

Humates provide an available long chain carbon material to the soil structure. Carbon is a basic element for all life forms. This carbon matrix promotes enhanced soil microbial activity for both indigenous bacteria and fungi, including those added to the soil, especially mycorrhizae. This aids in the formation of a balanced soil structure for proper plant development. It also aids in decomposition of residual plant material, particularly thatch.

Humates also provide a full spectrum of organic acids that are essential to plant development, specifically humic and fulvic acids. These act as organic chelators which enhance the uptake and utilization of vital plant nutrients contained in both organic and conventional fertilizers. Due to their negative ionic characteristics, these organic acids increase the cation exchange capacity (CEC) of the soil, which enhances the transfer of nutrients through cell membranes of plant root materials.

Application Guidelines

Agriculture Applications:

100-250 lbs. per acre (110 to 275 kg per hectare) per year applied as a broadcast, pre-plant or side-dress application during crop's normal soil treatment cycle in conjunction with normal fertilization programs.

For optimum results, Menefee Humate should be incorporated in the furrow row at planting.

Turfgrass Applications:

Greens: Apply monthly during primary turfgrass growth season at 2.5 lbs. per 1,000 ft² (1.1 kg. per 100 m²) per application in 6 – 8 applications. Include with top dressing and normal fertilization programs.

Tees and Fairways: Apply monthly at 2.5 lbs. per 1,000 ft² (1.1 kg per 100 m²) for at least 4 applications. Include with normal fertilization programs.

Construction and Seed Bed Preparations: Include at a 1.0% weight to weight inclusion rate with sand, bedding and planting media.

When used properly, Menefee Humate will not burn plant material and is not toxic.

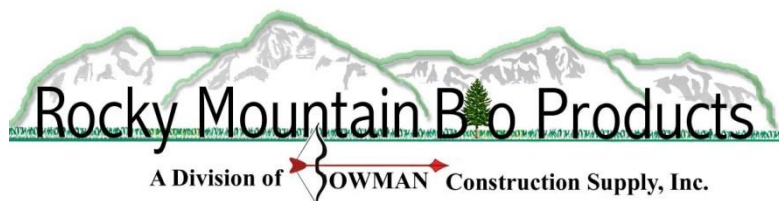
Menefee Humate works best when minimum daily soil temperatures reach 55° F.

Menefee Humate is pathogen free and will significantly improve poor soils when used in combination with a balanced fertilization program.



The following is a list of benefits from published literature on humic acid:

- Unlocks soil nutrients
- Improves effect of fertilizers
- Enhances root development
- Improves soil structure
- Enhances seed germination & survival
- Improves resistance to stress
- Enhance uniformity of stand
- Promotes residue (thatch) decomposition
- Achieves environmentally beneficial results



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- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

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