

# MENEFEE HUMATE

## A Natural Mineral, Carbon & Humic Acid Based Soil Conditioner



### What is Menefee Humate?

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.

Menefee Humate significantly improves 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, resistance to stress and the effect of fertilizers
- enhances root development, seed germination and survival
- promotes residue (thatch) decomposition
- achieves environmentally beneficial results

Humate also increases 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 of the soil, which enhances the transfer of nutrients through cell membranes of plant root materials.



Guaranteed Product Analysis	
Organic Matter	>85%
Humic Acids	>50.00%
Nitrogen	1.00%
Potassium	<0.10%
Phosphate	<0.10%
Calcium	1.04%
Sulfur	0.18%
Magnesium	0.14%
Iron	0.30%
Manganese	0.0004%
Copper	0.0002%
pH	3.4

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## Application Guidelines

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.

## Agriculture Applications

100-250 pounds per acre (110-275 kg/hectare) per year applied as a broadcast, pre-plant or side-dress application during a crop's normal soil treatment cycle in conjunction with normal fertilization programs. For optimal 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 pounds per 1,000 square feet (1.1 kg/100 m<sup>2</sup>) per application in six to eight applications. Include with top dressing and normal fertilization programs.
- **Tees & Fairways:** Apply monthly at 2.5 pounds per 1,000 square feet (1.1 kg/100 m<sup>2</sup>) for at least four applications. Include with normal fertilization programs.
- **Construction & Seed Bed Preparations:** Apply at a 1.0% weight to weight inclusion rate with sand, bedding and planting media.



Menefee Humate is listed by the  
Organic Materials Review Institute  
(OMRI) for use in production of  
organic food and fiber.

Avoid contact with eyes may cause mild irritation. In case of contact with eyes, flush with water. May cause irritation to mucous membranes and respiratory passages. Notice: Seller warrants that the product conforms to its description and is reasonably fit for the purposes stated on the label when used following directions under normal conditions of use. Neither this warranty nor any other warranty of merchantability or fitness for a particular use, express or implied, extends to the use of this product to label instructions, or under abnormal conditions, or conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.