



## MARK 4

### *Technical Specifications and Application Instructions*

#### **Product Description:**

TOMIGUNN MARK 4 is a complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. The combination of these ingredients will make indigenous beneficial microbes explode in numbers in the soil. This will improve organic matter in the soil, growth patterns in plants, and fruit quality. There are no fillers. One hundred percent of the ingredients have an active purpose for your soil and plants.

#### **Product Specifications:**

NON PLANT FOOD INGREDIENTS	35.2%
Bacillus Mucilaginosus	2.8x10 <sup>10</sup> cfu/Lb
Bacillus Subtilis	1.6x10 <sup>10</sup> cfu/Lb
Bacillus Megaterium	8.0x10 <sup>9</sup> cfu/Lb
Bacillus Licheniformis	8.0x10 <sup>9</sup> cfu/Lb
Bacillus Simplex	8.0x10 <sup>9</sup> cfu/Lb
Glomus Intraradices Endomycorhizae	25,000 propagules/Lb
Humic Acid:	10%
Fulvic Acid:	4%
Amino Acids:	13%
TOTAL OTHER INGREDIENTS	64.8%

Appearance:	Fine gray powder
Solubility:	100% in water (some powder may remain in Suspension)

#### **Benefits:**

1. Inoculates soil with diverse populations of bacteria and fungi that are beneficial to soil and plant life.
2. Stimulates the growth and reproduction of indigenous microorganisms.
3. Invigorates root growth.
4. Builds higher protein and sugar levels in plants.
5. Improves photosynthetic performance.
6. Helps to break up soil compaction.
7. Enhances resistance to drought, pests, and disease.

## **Directions for Use:**

### Liquid Application:

1. Add 4 to 8 fluid ounces of water to each 1 weight measured ounce of MARK 4 in a pail and agitate until powder goes into full suspension.
2. Add water and other liquid fertilizers to tank as directed.
3. Add pre-mixed MARK 4 solution to the tank.
4. Top tank with water to disperse MARK 4 throughout tank.
5. Apply directly after adding to the tank.

Note: Avoid mixing biocides in the tank with MARK 4 as it may reduce viable microbial counts at the time of application.

### Hydroseed Application:

1. Add measured quantity of MARK 4 directly into hydroseed slurry and mix thoroughly until MARK 4 is fully dispersed throughout the slurry.
2. Apply directly after adding to the slurry.

### Dry Application:

3. Mix measured quantity of MARK 4 into a small amount of water and mix into a slurry.
4. Add slurry to dry fertilizers and tumble thoroughly to evenly disperse the slurry.
5. Make sure product is not tacky to the touch before applying through a spreader.

## **Recommended Application Rates:**

### Row Crop Agriculture:

In-Furrow: 1.7 oz per acre

Broadcast: 3.4 oz per acre

Application rates can vary slightly based on crop types and soil conditions.

### Turf and Ornamentals:

3.4 to 6.8 oz per acre (2.2 to 4.4 grams per 1,000 sf)

Application rates can vary greatly based on turf needs and soil conditions. Apply every 4 to 6 weeks.

### Grass Seed/Hydroseed:

3.4 to 6.8 oz per acre (2.2 to 4.4 grams per 1,000 sf)

Application rates can vary greatly based on turf needs and soil conditions. Perform liquid MARK 4 application every 4 to 6 weeks after initial seeding.