

# 4-2-1-MARINE-GR

## 100% MARINE GRANULAR AMENDMENT

**MEDIUM  
GRADE**

### DESCRIPTION

4-2-1-MARINE-GR is a 100% marine granular amendment made from ORGANICOCEAN ASCO-PURE seaweed (*Ascophyllum nodosum*) and Northern shrimp meal. 4-2-1-MARINE-GR is a naturally balanced soil amendment that contains a wide range of micronutrients, growth promoting substances and soil conditioners.

4-2-1-MARINE-GR contains over 65% of organic matter. This slow-release amendment helps restore soil fertility and provides a rich carbon source for soil micro-organisms.

4-2-1-MARINE-GR contains over 60 chelated minerals and elements, more than 12 vitamins, a complete amino acids profile, growth regulators (cytokinines, betaines), chelating agents (mannitol, alginates) and natural antioxidants.

4-2-1-MARINE-GR also contains high concentration of **chitin**, the shrimp shell's structural biopolymer. The presence of chitin in the soil stimulates the development of bacterial population (actinomycetes) that produce chitinases. These enzymes have the capability to degrade the cell walls of nematode eggs and fungi.

### BENEFITS

- Improves soil fertility, nutrient retention and water holding capacity
- Stimulates micro-organism activity
- Increases mineral and water uptake from the soil
- Corrects minor nutrient deficiencies
- Increases resistance to drought
- Encourages reduction of nematodes eggs and fungi

### APPLICATION RATES

#### Turf

The suggested application rate is 5 kg / 100m<sup>2</sup>. Apply with the topdressing in springtime.

#### Vegetable and Fruit Crops

Apply at a rate of 350-400 kg/ha on the row before the vegetable crop or spread below the tree canopy for fruit crops. Work in slightly to mix with the first centimetres of soil.

### INGREDIENTS

Seaweed (*Ascophyllum nodosum*), Shrimp meal.

### GUARANTEED MINIMUM ANALYSIS

Total nitrogen (N)	4 %
Water insoluble nitrogen	4 %
Available phosphoric acid (P <sub>2</sub> O <sub>5</sub> )	2 %
Soluble potash (K <sub>2</sub> O)	1 %
Organic matter	65 %

### TYPICAL ANALYSIS

Boron (B)	45 ppm
Calcium (Ca)	9 %
Chitin	12 %
Copper (Cu)	12 ppm
Iron (Fe)	0,08 %
Magnesium (Mg)	0,7 %
Manganese (Mn)	12 ppm
Sodium (Na)	1,5 %
Zinc (Zn)	40 ppm

### PARTICLE SIZE

Medium grade.

### PACKAGING

- 500 kg (big bag)
- 20 kg (polypropylene bag with polyethylene liner)

### NOTES

4-2-1-MARINE-GR should be used as a part of a complete fertilization program that relates to the fertility of the soil. Store in a dry and cool place.

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