



100% ORGANIC MARINE PHYTOPLANKTON SOIL ENHANCER +CALMAG

GUARANTEED ANALYSIS

Calcium.....	2360ppm	.....	0.236%
Magnesium/Magnésium	1490ppm	.....	0.149%
Nitrogen/Azote.....	1900ppm	.....	0.19%
Phosphorus/Phosphore	9.6ppm	.....	0.00096%
Potassium.....	314ppm	.....	0.0314%
Boron/Bore	5.3ppm	.....	0.00053%
Iron/Fer.....	4.3ppm	.....	0.00042%
PPM = Part per million			
Guaranteed analysis			

- ECO-FRIENDLY
- PLANT-BASED
- NON-GMO
- RUNOFF SAFE
- PET SAFE
- 100% NATURAL
- NON TOXIC
- OMRI ORGANIC CERTIFIED

NATURALLY RICH IN:

- NITROGEN
- POTASSIUM
- PHOSPHORUS



PERFECT FOR ALL YOUR PLANT NEEDS

- INDOOR/OUTDOOR PLANTS
- URBAN/VEGETABLE GARDENS
- FLOWERS (INCLUDING ORCHIDS)
- LAWNS
- GOLF COURSES
- GREENHOUSES
- HYDROPONICS



MADE OF UP TO
80 SPECIES OF WILD
MARINE PHYTOPLANKTON,
THE FOUNDATION OF LIFE IN THE OCEAN



MARPHYL
MARINE PHYTOPLANKTON



PRODUCT OF
VANCOUVER ISLAND
CANADA

THE IMPORTANCE OF CALCIUM AND MAGNESIUM IN PLANT GROWTH

Calcium (Ca) and Magnesium (Mg) are two critical nutrients for healthy plants, playing complementary roles in **structural integrity and metabolic processes**. Both are essential for soil-based and hydroponic cultivation, ensuring plants grow robustly and resist stress.

KEY FUNCTIONS OF CALCIUM:

- Calcium fortifies cell walls, improving plant structure and resilience against pests, diseases, and environmental stress.
- Root and Fruit Development: Supports the formation of strong roots and healthy fruit. Deficiencies can lead to issues like blossom-end rot in tomatoes and peppers.
- Soil pH Balance: Especially important in acidic soils, where calcium can improve nutrient availability by adjusting pH.

KEY FUNCTIONS OF MAGNESIUM:

- Chlorophyll Production: Magnesium is central to chlorophyll synthesis, enabling efficient photosynthesis and energy transfer.
- Nutrient Mobilization: Ensures the movement and utilization of other essential nutrients.
- Stress Resilience: Magnesium helps plants maintain vigor under environmental stress, such as drought or extreme temperatures.

CROPS THAT REQUIRE CALCIUM AND MAGNESIUM:

Tomatoes and Peppers:

- Calcium prevents blossom-end rot and strengthens fruit quality.
- Magnesium supports photosynthesis and vigorous fruit production.

Leafy Greens (Lettuce, Spinach, Kale):

- Calcium ensures strong, crisp leaves.
- Magnesium promotes lush, green growth by enhancing chlorophyll levels.

Root Vegetables (Carrots, Beets, Radishes):

- Calcium improves root structure and stability.
- Magnesium drives metabolic processes for robust root development.

Legumes (Beans, Peas):

- Calcium supports root nodulation and nitrogen fixation.
- Magnesium aids in protein synthesis and energy transfer.

Fruit Trees (Citrus, Apples, Pears):

- Calcium strengthens cell walls in fruits, reducing cracking and improving storage life.
- Magnesium increases chlorophyll production, supporting sugar accumulation and fruit growth.

Tropical Plants:

- Particularly beneficial for those known to need a high intake of calcium and magnesium, such as palms, orchids, and foliage plants.
- These nutrients play crucial roles in plant health, growth, and overall vigor.



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IMPORTANCE OF A PROPER CALCIUM/MAGNESIUM RATIO

- Sufficient soil content of calcium and magnesium is essential for proper nutrient uptake in plants.
- A ratio of higher calcium to magnesium promotes nutrient availability in soils.
- It improve surface water infiltration and reduces runoff.
- Improves soil aeration and gas exchange.

We recommend **early application** for primary growth stage impact.

But it can **also be used to support later growth stage functions.**

Standard **1:20 mix ratio**
(1 part Soil Enhancer to 20 parts water) including for hydroponics



WITH THE PROPER BALANCE AND APPLICATION, CALCIUM AND MAGNESIUM ENSURE HEALTHIER, MORE PRODUCTIVE PLANTS WHILE IMPROVING THEIR RESISTANCE TO ENVIRONMENTAL STRESS.

For Root Crops, focus application near the base of plants to encourage deep root growth and nutrient uptake.



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PHYTOPLANKTON HARVESTING PROCESS

The ocean water gets pumped into tanks adjacent to the Pacific Ocean, where the phytoplankton naturally reproduces in big quantities (more than 100 million per tank). This reproduction process occurs on Vancouver Island under natural sunlight and environment. It removes tons of CO₂ from the atmosphere, which is shown as a massive production of oxygen (one batch produces as much oxygen as a 7- hectare forest).

When the water first comes in, one millimetre of water contains approximately 800 cells of marine phytoplankton, which will start multiplying as a result of the natural sunlight and natural surrounding environment on top of our patented process. At the harvesting stage, one millimetre of water has approximately 128,000,000 cells of marine phytoplankton.

The remaining water is released back into the ocean with the same amount of phytoplankton that was originally taken in order to not impact the marine life. The production plays an important role in the marine environment.

MARPHYL® IS A 100% ALL-NATURAL, WILD, MULTI-SPECIES MARINE PHYTOPLANKTON (MICRO ALGAE). IT IS A WHOLE FOOD INGREDIENT WHICH CONSISTS OF UP TO 80 DIFFERENT SPECIES OF MARINE PHYTOPLANKTON. IT IS A FULL COMPLEMENT OF ESSENTIAL NUTRIENTS.



★★★★★
OVER 12 000 5-STAR
REVIEWS FROM
SATISFIED CLIENTS

We have decided to donate 1% of all our sales to Mission Blue, an initiative of the Sylvia Earle Alliance (S.E.A.), that with public support protect Hope Spots – special places that are vital to the health of the ocean, the blue heart of our planet. With two hope spots under consideration where MARPHYL® marine phytoplankton is taken form, it was the perfect organization to contribute to.



Marine phytoplankton has been called the most nutritionally dense food on the planet. MARPHYL® Marine phytoplankton is rich in trace minerals, antioxidants, carotenoids, essential amino acids, beta-carotene, chlorophyll, DHA, EPA, macronutrients, proteins, fatty acids, including omega-3 and omega-6 with a concentration of vitamins A, B1, B2, B3, B5, B6, B12, C and E.

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