

ROOTS
SHOOTS
& FRUITS



GROW BETTER

With Innovative Organic Fertilisers
and Biological Organisms



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SOIL HEALTH · PLANT HEALTH · YOUR HEALTH

WANT TO GROW BETTER?



Higher Yields
of Fruit and
Vegetables



Faster
Growing
Plants



Disease
and Pest
Resistance



Grow More
Nutrient
Dense Food



No Exposure to Harmful Chemicals
For YOUR FAMILY!

PLANT, ENVIRONMENT AND HUMAN SAFETY



Roots, Shoots & Fruits products are totally harmless to plants, the environment, wildlife and humans even when recommended rates are exceeded. Exceeding recommended rates is however unnecessary.

Our products are environmentally friendly and we are advocates for healthier growing practices to benefit our environment and remove unnecessary chemicals from our food chain.

The **SECRET** is in using Innovative Organic Fertilisers and Biological Organisms



Introducing the Roots, Shoots & Fruits **Home Garden Range**.

The same technology that commercial organic gardeners have been using for two decades is now available to home gardeners and lifestyle block owners.

IT'S OUR MISSION

We assist growers to achieve their maximum potential while remaining cost effective. We help people to keep up-to-date with the latest technical advances in nutritional and biological products.

BIOMIN™

CALCIUM

Soluble Powder
Single Mineral Biomin Calcium

Biomin Calcium™ is a true amino acid chelated mineral.

The chelating agent is mainly glycine, the smallest amino acid commonly used by and found in plants. The unique formulation classifies it at the top of the range of all chelated minerals.

Biomin Calcium™ is a readily bio-available plant single mineral product. The highlights of such a product include almost total absorption within a few hours after application. The chelating agent Glycine prevents the precipitation of the product and enables all the minerals to move freely inside the plant making the product highly systemic.

Biomin Calcium™ is ideal for all crops as it contains one of the most important elements in plant mineral nutrition — Calcium.



ADVANTAGES + BENEFITS

- + **The only bio-available organic plant nutrient that is systemic, readily available and non-phytotoxic**
- + **Very stable in formulation and can be used on all horticultural crops at almost any stage of growth**
- + **Reduces and prevent fruit splitting in grapes, cherries and stone fruit**
- + **Reduces bitter pit in apples and pitting in kiwifruit**
- + **Prevents albedo breakdown in citrus**
- + **Assists in providing better skin quality, firmness and helps to create crunchiness in grapes, apples and other fruit**
- + **Adds to the keeping quality of fruit and prevents fruit from rapid breakdown after picking.**



Foliar
Spray



Soil
Applied



Irrigation
System

Compatibility:

- ✓ COMPATIBLE with almost all fungicides, insecticides and herbicides
- ✗ INCOMPATIBLE with Magnesium, Phosphorous, Trace elements, Potassium

We recommend always running a compatibility test before applying any foliar fertiliser with other chemicals.

Guaranteed Analysis:

Dry Weight Basis %/w/w	
Calcium (Ca)	15.0
As amino acid Chelate	
Dry Weight Basis %/w/w	
Nitrogen (N)	3.6
As amino acid	

SUPERZYME™

Bacillus subtilis
Trichoderma harzianum, *Trichoderma koningii*
Pseudomonas spp

Superzyme™ contains beneficial bacteria and fungi that enhances soil life. Soil is a living entity occupied by micro flora and fauna. Billions of organisms live in the soil and form dynamic relationships, some antagonistic and other synergistic.

A healthy soil is one where all the organisms the plant requires are present and functioning. The use of **Superzyme™** re-introduces these beneficial organisms that plants require to function normally.

Plants grow in optimal conditions when the correct ratio of fungi to bacteria is present, and ratio of predator to prey is present. Using beneficial inoculums such as **Superzyme™** will enable the plant to function optimally.

ADVANTAGES + BENEFITS

- + **Better seed germination**
- + **Increased plant survival rates**
- + **Abundant root proliferation**
- + **Improved growth and vigour**
- + **Healthier plants with less disease issues**
- + **Increased fruit set and accordingly, higher yields of higher quality fruit and vegetables**
- + **Shortens days leading up to flowering and increases flower sites on plants**
- + **Improve soil structure.**

When properly applied to the soil, **Superzyme™** will multiply and produce factors which may stimulate plant growth.

Superzyme™ can be used on:

Wine grapes, table grapes, deciduous fruits, nuts, citrus, raspberries, cotton, vegetables, asparagus, corn, carrots, onions, garlic, capsicums, potatoes, tomatoes, melons, legumes, sorghum, turf grass, ornamental, horticultural, and nursery plants.



Seed Soak



Foliar Spray



Root Dip



Irrigation System

Compatibility:

Superzyme™ may be rendered ineffective in the presence of high rates of Copper. This biological product may be killed if combined with Bactericides, soil fumigants, aqueous ammonia, phosphoric acid, chlorine, or sulphuric acid. If applied with large doses of fertilisers, there is a possibility of salt toxicity to the beneficial organisms.

Guaranteed Analysis:

Bacillus subtilis • *Pseudomonas putida*
Trichoderma koningii • *Trichoderma harzianum*
 The total spore counts is 2×10^9 active spores per gram of product.

BIOMIN™ BOOSTER

Soluble Powder
Multi-mineral Combination

BiomIn Booster™ is an amino acid chelated multi mineral.

The chelating agent is mainly glycine, the smallest amino acid commonly used by and found in plants. The unique formulation of **BiomIn Booster™** classifies it at the top of the range of all chelated minerals.

BiomIn Booster™ is a readily bio-available plant multi mineral product. The highlights of such a product include almost total absorption within a few hours after application. The chelating agent Glycine prevents the precipitation of the product and enables all the minerals to move freely inside the plant making the product highly systemic.

BiomIn Booster™ is ideal for all crops as it contains all the essential trace elements required for productivity, with additional Magnesium for chlorophyll production.

ADVANTAGES + BENEFITS

- + **Smallest molecular size that a chelate can ever have resulting in easy penetration of leaf surfaces**
- + **Aids in improving yields and crop quality**
- + **Very stable in formulation and can be used on all gardening crops at almost any stage of growth**
- + **Provides balanced nutrition supplying all essential trace elements, including Molybdenum, a commonly overlooked essential trace element**
- + **100% soluble meaning no product wasted**
- + **BiomIn Booster™ is an excellent product for preflowering and post harvest application of elements to replenish lost reserves of trace elements and Magnesium in all crops.**



Foliar
Spray



Soil
Applied



Irrigation
System

Compatibility:

- ✓ **COMPATIBLE** with almost all fungicides, insecticides and herbicides. BiomIn Booster™ can also be used in combination with all other BiomIn products, except BiomIn Calcium™.
- ✗ **INCOMPATIBLE** with Calcium products, also Phosphorous and Potassium foliar nutrients.

We recommend always running a compatibility test before applying any foliar fertiliser with other chemicals.

Guaranteed Analysis:

Dry Weight / Basis %/w/w

As amino acid Chelates:

Magnesium (Mg) 4.1	Copper 1.5
Zinc (Zn) 4.1	Boron (B) 1.5
Iron (Fe) 2.6	Molybdenum (Mo) 0.5
Manganese (Mn) 2.6	

As amino acid:
Nitrogen (N)

6.7

MOBILIZER™

Concentrated Liquid Organic Extract, Electrolyte

Mobilizer™ is a fulvic acid product that works to increase the uptake of mineral nutrients in plants.

Mobilizer™ is a concentrated liquid leonardite extract designed to mobilise and naturally chelate the macro and microelements in the soil. **Mobilizer™** transforms and stores fertiliser nutrients into easily available forms. **Mobilizer™** mobilises Calcium, Phosphorus, Potassium, Magnesium and trace elements, thus increases their availability when injected into irrigation systems.

Moreover, **Mobilizer™** is known to aid in leaching Sodium out of the soil. The most pronounced effects of **Mobilizer™** are obtained when using it in early season soil treatments followed with post emergence foliar sprays.

Mobilizer™ is used by many growers to improve crop production and as a powerful plant electrolyte to overcome stress.

ADVANTAGES + BENEFITS

- + Reduces the precipitation of Phosphorus and mobilises Calcium, Potassium, Magnesium and the trace elements by making them more available to the crop when applied to the soil and/or hydroponic systems
- + Transports nutrients within the plant (e.g. Calcium, Iron, and/or Zinc are normally not very mobile within the plant) when sprayed onto the foliage in conjunction with nutrients
- + Stimulates the metabolism of plants by converting carbohydrates into soluble solids
- + Increases the pressure of the cell membrane to enable plants to withstand wilting and periods of extreme heat and cold stress
- + Also enhances growth, cell division and elongation and stimulates the immune system
- + Aids in leaching Sodium out of the soil when applied alone or with soil ameliorants
- + Is a pH buffer and can be used on both alkaline or acid soils, so add a little to any soil or foliar application.



Soil Applied



Foliar Spray



Root Dip



Irrigation System

Compatibility:

- ✓ COMPATIBLE with almost all fungicides, insecticides and herbicides
- ✗ INCOMPATIBLE with Copper based products

We recommend always running a compatibility test before applying any foliar fertiliser with other chemicals.

Guaranteed Analysis
Fulvic Acid:

3%
+ Amino Acids

BIO-REPEL™

Concentrated garlic extract

Bio-Repel™ is an all natural repellent made from pure garlic juice. When applied, the strong garlic odour dissipates within a few minutes but remains offensive to insect pests.

Bio-Repel™ can be applied to all plants, trees, shrubs, and crops to repel most insect pests. It is safe to use, handle, and store, has no plant phytotoxicity, and is non-toxic to humans and animals when applied as directed on the label.

The main advantage of **Bio-Repel™** is the absence of harmful chemicals that may kill off beneficial insects.

Bio-Repel™ has been found to repel some birds such as Starlings, Silver Eyes, Minors and also Wallabies.

Bio-Repel™ can be applied to all plants, trees, crops and shrubs to repel most insect pests. It is safe to use, handle, and store, has no plant toxicity and is non-toxic to humans and animals.

Bio-Repel™ is not an insecticide and does not kill insects. It is just a repellent.

ADVANTAGES + BENEFITS

The main advantage of using **Bio-Repel™** is the absence of harmful chemicals that may be hazardous to humans, animals, and may kill off beneficial insects.

The garlic odour that remains offensive and unattractive to insect pests serves to deceive them into thinking that the treated plant or area is a garlic plant or field. This is not a primary host for insect pests, so the treated plant or area is left with no damage done by them.

BENEFICIAL INSECTS

Care should be taken when using **Bio-Repel™** at key times around flowering so that beneficial insects, such as bees, are not repelled.



Foliar Spray



Soil Applied

Compatibility:

- ✓ COMPATIBLE with almost all fungicides, insecticides and herbicides
- ✗ INCOMPATIBLE **Bio-Repel™** should not be mixed with any insecticide as the smell of the insecticide will dominate over the smell of the **Bio-Repel™** and decrease its potency.

We recommend always running a compatibility test before applying any foliar fertiliser with other chemicals.

Guaranteed Analysis

Concentrated Garlic Extract 10%

ROOTELLA™ T

Soil applied
Mycorrhizae product

Mycorrhizae are symbiotic associations that form between the roots of most plant species and fungi. The term Mycorrhiza literally means “fungus root”. It is estimated that 95% of all plant species belong to the genera that form Mycorrhizae. Crops not only respond positively to colonisation by Mycorrhizal fungi, but they may also suffer in their absence; providing natural protection and assistance when it comes to getting plants established.

Estimates of Mycorrhizal filaments present in healthy soil are astonishing. Several kilometres of filaments can be present in less than a thimbleful of soil associated with growing plants.

Rootella® contains endo mycorrhizae fungi that can enter the root system to help increase the flow of nutrients from the soil, whilst also providing protection from the harshness of soil micro fauna and flora.

ADVANTAGES + BENEFITS

- + **Best applied on soil for new plantings**
- + **Can increase the absorbing area of roots 10 to 1000 times thereby greatly improving the ability of the plants to utilise the soil resources**
- + **The fungi in Rootella™ are able to absorb and transfer fifteen (15) major macro and micro nutrients required for plant growth. Mycorrhizal fungi release powerful chemicals into the soil that dissolve hard to capture nutrients such as Phosphorous.**
- + **The Mycorrhizal fungi in Rootella™ also improve soil structure. The intricate web of hyphae produced by these organisms also produces humic compounds and Glomalin which is a soil glue. This glue binds soils into aggregates and improves soil porosity and enhancing carbon storage.**

Rootella® can be used on, but not limited to, the following crops: Wine grapes, table grapes, deciduous fruits, nuts, citrus, raspberries, cotton, vegetables, asparagus, corn, carrots, onions, garlic, capsicums, potatoes, tomatoes, melons, legumes, sorghum, turf grass, ornamental, horticultural, and nursery plants.



Soil Applied



Root Dip

Compatibility:

Rootella® may be rendered ineffective in the presence of high rates of phosphorous fertiliser. This biological product may be killed if combined with certain fungicides, soil fumigants, aqueous ammonia, phosphoric acid, or Sulphuric acid. Please check with our compatibility tool on website www.rd2.co.nz/rootella-compatibility-tool/

If applied with large doses of fertilisers, there is a possibility of salt toxicity to the beneficial fungi.

Guaranteed Analysis

Soil Amending Ingredient.....	5%
Glomus intraradices.....	1,750 propagules/gr
Glomus mosseae.....	50 propagules/gr

Total Other Inert Ingredients (Vermiculite)...95%



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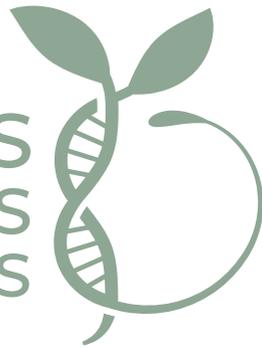
If you have any growing related queries please ask your friendly retailer or email Roots, Shoots & Fruits at rsf@rd2.co.nz or visit our website www.rd2.co.nz

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