



# Product Guide

Fair Dinkum Fertilizers

... get fair and ... grow naturally!

Version - 0923

### About Us



At Fair Dinkum Fertilizers, we're not just passionate about agriculture and horticulture; we're committed to nurturing the very essence of growth. Established with a vision to make a difference in the world of fertilisers and plant care, our journey began with a simple belief – that quality, sustainability, and innovation should be at the heart of every product we create.

For over 20 years, we've been dedicated to formulating and delivering cutting-edge solutions that empower farmers, gardeners, and growers alike. Our journey has taken us from the lush fields of Australia to the supplying product across the globe, as we've grown to become a trusted name in the industry.

What sets us apart is our unwavering commitment to environmental responsibility. We harness the power of nature to create products that not only enhance crop yields and garden beauty but also promote ecological harmony. Sustainability isn't just a buzzword for us; it's a core principle woven into the fabric of our company.

We pride ourselves on our Australian roots, sourcing the finest natural ingredients from the pristine landscapes of this continent. Our kelp is collected only from the rugged North West Coast of Tasmania, which is arguably some of the cleanest waters in the world, and the kelp collected is all storm cast...never cut from living plants.

Fair Dinkum Fertilizers is more than a company; it's a community of growers, farmers, and enthusiasts who share a common goal – to nurture life from the ground up. We're honoured to be a part of your journey towards healthier, more abundant harvests and vibrant, thriving gardens.

Join us in our quest to for a greener, more sustainable future. Together, we'll continue to innovate, educate, and inspire, because when it comes to growth, we believe in nothing less than Fair Dinkum excellence.

You can always stay up to date by checking online at www.fairdinkumfertilizers.com for updates to this product guide.

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Now available for download...



#### www.fairdinkumfertilizers.com

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# Superfine





Superfine liquid seaweed stands out as an exceptionally effective foliar spray, offering various advantages depending on the growth stage. When applied during the early phases of plant development, it actively promotes root growth. Conversely, when applied later in the growing season, it has the remarkable ability to delay senescence, or the natural process of plant aging and dying off.

The production of most liquid seaweed products involves alkaline hydrolysis, a process that partially breaks down the alginate component. Unfortunately, with time, these products tend to thicken and may develop a delicate, unstable surface film when exposed to air. While gentle agitation can usually remedy this issue when using these products, in the case of single-dripper applications, a persistent skin formation can potentially obstruct the dripper.

Several factors contribute to dripper blockage concerns. In certain instances, liquid seaweed products may contain particles too large to pass through the dripper. Even when the particle sizes are sufficiently small, blockages can still occur as these particles tend to adhere together. Evaporation from the droplet and transformations upon exposure to air appear to be the primary factors responsible for this problem. It is worth noting that extreme breakdown processes, while reducing this issue, often introduce other undesirable effects due to their harsh conditions.

Enter Fair Dinkum Fertilizers, which has developed a mild processing method resulting in a slightly acidic product named Superfine. This Superfine product distinguishes itself by maintaining its fluid consistency over time, with minimal skin formation even when in contact with air. Superfine liquid seaweed poses an extremely low risk of causing dripper blockages.

Since Superfine is acidic-based, it readily lends itself to blending with other agricultural products like Fish Emulsion and Molasses. Additionally, it can be mixed with metal sulphates and metal nitrates to address trace element deficiencies. However, it's essential to note that due to its slight acidity, using Superfine in metal systems may lead to corrosion and tarnishing. Therefore, it is recommended to employ plastic-based systems or, if used in metal systems for extended periods, to thoroughly clean the equipment after use.

Superfine is available in standard formulation or a certified organic formulation.

#### Application rates

#### Pasture

Use between 5-7 ltrs p/Ha for each of three to six applications over the growing season. Spray only when soil moisture is adequate. More than four applications should only be used on irrigated pasture. Potatoes

Use 5-7 Itrs p/Ha over 2-3 applications during tuber set to increase tuber numbers.

Use 1-2 applications two to four weeks before harvest to increase yield.

#### Home Garden

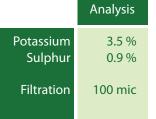
Mix 40 ml of concentrate into a 9 ltr watering can.

Product Sizes Available 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.



#### Key selling points:

- Acidic liquid seaweed concentrate
- Can be mixed with many agricultural products
- Can be mixed with various metal sulphates
- Improves resistance to disease
- 100% Tasmanian Bull Kelp
- Australian Made & Owned



%W/V is grams per 100ml of produc ppm is parts per million on weight bas g/l is grams per liti

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## Gold





Fair Dinkum Fertilizers Seaweed Gold liquid seaweed is crafted from fresh Australian bull kelp, scientifically known as *Durvillea potatorum*, carefully harvested from the rugged North West coast of Tasmania. Employing a specialised warm hydrolysis process, meticulously developed by Fair Dinkum Fertilizers for the brewing of fresh kelp, this product is also referred to as Seaweed Gold - All purpose liquid seaweed concentrate.

This unique processing technique optimises the extraction of essential plant growth regulators. Extensive testing, both in laboratory settings and real-world field conditions, has confirmed the remarkable stability of the plant growth regulators or hormones contained within the product. These include auxins, cytokinins, betaines, sugars, and phenolics, all of which play pivotal roles in plant development. The application of Seaweed Gold results in a multitude of benefits, such as increased chlorophyll production, enhanced root development, heightened resilience against environmental stresses like drought, frost, insect attacks, and salinity, as well as improved uptake of previously "locked-up" nutrients in the soil.

Notably, Fair Dinkum Fertilizers Gold has demonstrated significant enhancements in root development across various plant types, including ornamental, vegetable, and cereal crops. To achieve the best results, it is advisable to apply two or more treatments, typically at rates ranging from 3 to 5 ltrs per hectare. The most pronounced effects are observed when applications are made during the early stages of plant growth. However, it is important to note that treating potatoes before tuber initiation is not recommended, as it may lead to an increased number of smaller potatoes—a feature that can be advantageous in seed potato production.

Gold also fosters greater microbial activity in the soil, a crucial factor that, combined with enhanced root development, leads to increased nutrient availability. When applied to sensitive crops like citrus, capsicum, and tomatoes, Seaweed Gold has been shown to reduce damage from late frost. In drought conditions, plants treated with Seaweed Gold exhibit higher survival rates compared to untreated plants. In saline soils, Seaweed Gold significantly boosts plant vigour as well. In marginal lands, the judicious use of Seaweed Gold can make the pivotal difference between a profitable yield and a loss.

Gold is available in standard formulation or a certified organic formulation.

Application rates Home Garden Mix 40ml of product into 9 ltrs of water. Pasture Apply 7-10 ltrs p/Ha. Dilute 1 part product into at least 20 ltrs of water. Apply early Spring, late Spring and late Autumn. Crops Apply 7-10 ltrs p/Ha. Dilute 1 ltr product into at least 20 ltrs of water. Apply at early leaf stage and then follow up sprays at 2-3 week intervals



Product Sizes Available 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.

Improves resistance to disease 100% Tasmanian Bull Kelp

Alkaline liquid seaweed concentrate Can be mixed with humates and fulvates

	Analysis	
Potassium Sulphur Solids	3.4 % 0.8 % >9.5 %	
Filtration	100 mic	

%W/V is grams per 100ml of p ppm is parts per million on weigh g/l is grams p

Australian Made & Owned

Key selling points:

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### Premium





Premium is a specialised formulation designed for crop production using fine boom sprays, aerial sprays, or dripper systems. It proves particularly well-suited for cereals, Brassica crops (such as turnips, swedes, and rape), and fodder crops when integrated into mixed animal and crop farming rotations. It's also effective for application to pastures.

Premium comprises soluble macronutrients, including nitrogen, phosphorus, and potassium, which can be readily absorbed through plant leaves. Additionally, it contains essential trace elements like copper and zinc, often deficient in Australian soils. These trace elements are in a chelated form, allowing absorption through both leaves and soil.

This product is meticulously designed for foliar application and filtered to 100 microns to prevent nozzle blockages. It's worth noting that some components may crystallise in cold conditions, so using spray filters is advisable.

For perennial pastures, Premium can be applied to stimulate winter growth. It contains compatible solutes that mitigate the impact of cooler temperatures on growth. To achieve the desired effect, multiple applications are necessary, typically at rates of about 4-6 ltrs per hectare, with three to four-week intervals between applications.

#### Application rates

Spray during early morning or late afternoon, avoiding full sun exposure where possible to avoid any chance of leaf burn or damage.

Dilute the product at a ratio of 1 part product to at least 20 parts water. Cereals

Apply 10-15 ltrs per hectare at the four-leaf stage or soon after. Alternatively, make two applications of 5-7 ltrs per hectare, with the first at the four-leaf stage and the second 2-3 weeks later. Pasture

Apply 5-7 Itrs per hectare in late autumn, early spring, and late spring. Brassica

Apply 5-7 Itrs per hectare when the tops reach a height of 5-8 cm, repeating this process two or three more times at 2-3 week intervals.

To harness the benefits of increased growth, ensure you spray at least 2 weeks before allowing livestock to graze on treated pastures. After use, thoroughly clean your spraying equipment to prevent product crystallisation in the spray system.

Product Sizes Available 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.

		Analysis
	Nitrogen	5.7 %
	Phosphorous	1.0 %
	Potassium	5.6 %
Key selling points:	Sulphur	6000 ppm
	Copper	555 ppm
Seaweed based formulation	Zinc	555 ppm
Added NPK mix	Manganese	100 ppm
Added trace elements	Boron	60 ppm
Suitable for boom sprays & drippers	Molybdenum	10 ppm
100% Tasmanian Bull Kelp Australian Made & Owned	Filtration	100 mic

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%W/V is grams per 100ml of produ ppm is parts per million on weight ba g/l is grams per li

# Spurt





Fair Dinkum Fertilizers introduces Spurt, a fortified liquid seaweed specially crafted to invigorate pastures and crops, sparking rapid growth by combining the potent plant growth regulators found in seaweed with essential nutrients.

Crop and pasture growth often encounters sluggish periods due to environmental stressors such as drought and extended periods of extreme temperatures. Spurt is meticulously formulated to thrive in such challenging conditions.

Spurt should be used with caution in situations where frost is a possibility, but it is well-suited for application during periods of low, non-freezing temperatures. It performs optimally when there is adequate soil moisture following a drought, but it is not recommended for use in dry soil conditions.

Similar to Premium, Spurt distinguishes itself by containing a higher concentration of available nitrogen. Typically, results become noticeable within approximately two weeks of application.

Spurt is meticulously crafted through a three-stage manufacturing process. The first stage involves alkaline hydrolysis, followed by the removal of components that contribute to excessive viscosity in the second stage. The third stage is where essential nutrients are thoughtfully incorporated.

When used independently, Spurt consistently outperforms single-stage and two-stage products. Spurt boasts an array of beneficial components, including plant growth regulators, both simple and complex sugars like mannitol, amino acids, and trace elements such as iodine, selenium, and potassium. Additionally, it contains the following supplementary nutrients as seen in the analysis.

#### **Application Rates**

Pasture, Lucerne & Fodder Crops

Apply whenever the crop requires a short-term boost at rates of 5-7 ltrs per hectare. Dilute at a minimum ratio of 1 part product to 10 parts water, preferably 1:20. However, it's important to note that Spurt should not be used on pasture more than four times a year, unless there are more than two cuts of hay or silage being harvested.

#### Vegetables

While Spurt can be utilised on leafy vegetables, its application on young seedlings should be exercised with caution.

For inquiries or additional information, feel free to contact Fair Dinkum Fertilizers.

Product Sizes Available 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.

		Analysis
	Nitrogen	10 %
	Phosphorous	0.3 %
	Potassium	4.8 %
	Sulphur	6000 ppm
	Copper	300 ppm
ormulation	Zinc	300 ppm
ce elements	Manganese	100 ppm
ently water logged	Boron	60 ppm
sprays & drippers	Molybdenum	10 ppm
ull Kelp k Owned	Filtration	100 mic

%W/V is grams per 100ml of produ ppm is parts per million on weight ba

#### Key selling points:

- Seaweed based formulation
- Added NPK & trace elements
- Great for area recently water logged
- Suitable for boom sprays & drippers
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

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### **MultiFeed**





MultiFeed, developed by Fair Dinkum Fertilizers, is a cutting-edge, organically based liquid fertiliser and soil conditioner meticulously crafted to swiftly deliver essential nutrients to plants, crops and pastures. Its unique blend comprises seaweed, humates, and amino acids, resulting from years of dedicated research.

MultiFeed offers rapid benefits, including:

- Enhanced plant growth and vigour.
- Stimulation of flowering and fruit production.
- Improvement in soil structure.
- Nourishment of soil microbes and facilitation of nutrient absorption.

MultiFeed contains the primary NPK nutrients and trace elements in a form that crops readily assimilate. The humate within MultiFeed possesses excellent chelating properties for trace elements, enabling plants to efficiently access these nutrients. Moreover, it aids in retaining soluble nutrients in sandy soils.

Liquid seaweed is a potent source of plant growth regulators (PGRs) and other compounds with profound impacts on plant development. It also contains amino acids that can be transformed into PGRs, including essential auxins that significantly influence root growth. Amino acids are essential for nourishing soil microbes and contain substances that reduce nutrient leaching from the soil. MultiFeed's amino acids are derived from the breakdown of proteins found in seaweed and other organic materials. Their relatively small molecules enable easy absorption through

foliage, excretion through roots to support soil microorganisms around the root zone, and overall mobility within the plant.

MultiFeed encompasses a blend of amino acids, including "essential" ones that organisms cannot produce on their own. Some of these amino acids are vital for soil microbes, while others spare the organism energy that would otherwise be expended in their production. MultiFeed can be applied to meet the full spectrum of nutrient requirements in plants and crops with low to moderate nutrient needs or used as a supplement during periods of heightened nutrient demand when the soil falls short.

#### Application rates:

For Home Garden, mix 40ml, (two cap fulls) into a 9 ltr watering can. For larger applications, mix 1 part MultiFeed with a minimum of 20 parts water (preferably 30 parts water). Avoid application during the heat of the day; the best time is when the day's humidity has subsided.

Product Sizes Available 1 ltr, 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.

		Analysis
Kov solling points:	Nitrogen Phosphorous	
Key selling points: High nitrogen seaweed based formulation	Potassium Zinc	
Added Fish Emulsion Added humate	Manganese Boron	
Finely filtered 100% Tasmanian Bull Kelp	Molybdenum	10 ppm
Australian Made & Owned	Filtration	100 mic

%W/V is grams per 10 pm is parts per million a/l i:

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# Vegetables / Mate



Fair Dinkum Vegetables is a unique blend that combines the benefits of seaweed and potassium humate, which is essentially the potassium salt derived from humic acid. Humic acid is a stable component of humus that remains viable over an extended period and can be dissolved in alkali.

This product is especially advantageous for use in light sandy soils and soils that have phosphorus locked within them. While it can provide valuable benefits in nearly all soil types, it should be avoided on soils contaminated with excessive copper, zinc, cobalt, and manganese, as it may potentially release these elements, which could then be absorbed by plants.

The liquid seaweed utilised in Vegetables has undergone rigorous testing, both in laboratory settings and real-world field conditions. It contains a variety of plant growth regulators, including auxins, cytokinins, and betaines, along with sugars and phenolics. These compounds remain stable in the product and contribute to increased chlorophyll production, enhanced root development, improved resilience to environmental stressors like drought, frost, insect infestations, and salinity, as well as greater absorption of previously inaccessible nutrients.

The potassium humate included in Vegetables, as indicated by studies conducted at Australian Universities, promotes the uptake of locked-up trace elements and phosphorus within the soil. It also enhances the soil's water retention capacity and increases its cation exchange capacity (CEC).

While this product can be applied as a soil drench, exercise caution as it may stain concrete and painted surfaces in home garden applications. Vegetables is available in standard formulation or a certified organic formulation.

Application rates: Home Garden - Mix 40ml of product to 9 ltrs of water.

Product Sizes Available 1 ltr, 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.



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#### Key selling points:

- Alkaline seaweed concentrate
- Added potassium humate
- Great for use in sandy soils
- Releases locked up nutrients in the soil
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

Potassium 3.5 % Seaweed 23 % Non Seaweed Solids 11.8 %

> %W/V is grams per 100ml of produc ppm is parts per million on weight bas g/l is grams per litte

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# Fish Emulsion





Fair Dinkum Fertilizers Fish Fert is crafted exclusively from 100% organic fish by-products. In collaboration with fellow Australian enterprises, this product has undergone meticulous processing to ensure optimal application benefits while maintaining economic viability.

Fish Fert offers a versatile approach that can reduce or even replace the need for direct applications of traditional nitrogen-based fertilisers. This product, enriched with Nitrogen, Potassium, Phosphorus, Calcium, fats, and oils, forms a potent organic blend of nutrients essential for fostering enhanced plant growth. The primary applications for Fish Emulsion encompass:

- Pre-planting soil conditioning.
- Direct foliar application.
- Top-dressing for pastures and crops.
- Fortifying composting processes as a biological enhancer.

Fair Dinkum Fertilizers' Fish Fert undergoes a meticulous 100-micron filtration process to facilitate its application, whether via fine sprayers or dripper systems.

It is often employed to bolster soil microbial activity, either through direct application or as an ingredient in "compost tea" mixtures. When used in compost tea, it's recommended to combine Fish Emulsion with liquid seaweed, as well as humate or fulvate.

Fair Dinkum Fertilizers is available to provide guidance on creating compost teas if needed.

Fish Emulsion is available in standard formulation or a certified organic formulation.

Application rates: Home Garden: Apply 40 ml in 9 lltrs of water over 400 square meters every 2-3 weeks.

Product Sizes Available 1 ltr, 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.



Approved Organic Input

			Analysis
	Key selling points:	Nitrogen	2.5 %
•	Finely filtered	Phosphorous	0.3 %
•	Great source of organic nitrogen	Potassium	0.25 %
•	Manufactured to reduce separation of fats & oils	Calcium	0.5 %
•	Good supply of calcium	Fats & Oils	3.0 %
•	Made from 100% Australian fish waste Australian Made & Owned	Filtration	100 mic

%W/V is grams per 100ml o ppm is parts per million on we g/l is gram

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# **Quick Grow**





Quick Grow is specifically developed for foliar application on crops suffering from nitrogen deficiencies, offering a nitrogen source that can be swiftly absorbed by the foliage in a readily assimilable form. Nitrogen deficiency stands as a significant factor causing growth inhibition and reduced yields. Quick Grow, while lacking substantial amounts of amino acids, is rich in nitrogen, which the plant can utilise to synthesise amino acids—an essential building block for proteins, including enzymes.

In addition to nitrogen, Quick Grow contains liquid seaweed, a nitrogen stabiliser, and a minimal quantity of potassium. These additives are strategically chosen to curb nitrogen release into the air and facilitate absorption into plant cells. The inclusion of liquid seaweed fosters the uptake of phosphorus and trace elements by stimulating soil microbes in the root zone, known as the rhizosphere.

Quick Grow is primarily designed for foliar application rather than soil application, and each application typically augments plant nitrogen content by approximately 4 kg/ha.

#### Pasture

Quick Grow proves particularly valuable when feed is scarce during the summer months. Its application provides pastures with a substantial growth boost. In a dairy farming rotation, it's advisable to apply Quick Grow as soon as possible after moving cows to maximise growth before their return.

Quick Grow was specifically formulated to address nitrogen deficiency, especially in situations where soil nitrogen is severely depleted due to water logging and the actions of bacteria. Denitrifying bacteria can convert nitrates and ammonium salts into gaseous nitrogen, leading to a rapid rate of nitrogen production in waterlogged soils and resulting in severe nitrogen deficiencies.

#### Other Crops

Quick Grow is designed for application on nitrogen-deficient crops during their vegetative growth stages but should be avoided during fruit or flower production stages. It is not suitable for use on water logged soil or frost-sensitive crops if there's a possibility of frost occurring.

#### Application rates

Whenever possible, apply Quick Grow later in the day.
Mix 1 part product with a minimum of 15-20 parts water.
During periods of slow growth, rates of up to 15 ltrs per hectare can be employed.
Do not apply when the temperature exceeds 25 degrees Celsius or is expected to reach or exceed that temperature within twelve hours after application.
Rapid nitrogen absorption benefits from high humidity on the leaf surface.
Use the finest available spray.
Keep animals away for at least 48 hours to allow proper absorption of the components into the foliage.

Product Sizes Available 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- Finely filtered
- Added Seaweed and Humate
- Stabilised to reduce nitrogen leaching
- Suitable for use in boom sprays & drippers
- 100% Australian made
- Australian Made & Owned

Nitrogen 22 % Potassium 0.3 % Sulphur 0.1 %

Analysis

%W/V is grams per 100ml of produc ppm is parts per million on weight basi g/l is grams per litr mic = micron

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### **Frost Guard**





Frost Guard, a fusion of liquid seaweed and electrolytes, serves to enhance frost resistance across a diverse spectrum of plants and crops. It can also be judiciously utilised to mitigate heat stress. While considering Frost Guard as a frost protection, it should be regarded as "limited insurance" against frost-induced losses. It's imperative to bear in mind that no strategy can provide an absolute guarantee of eradicating frost damage, and supplementary measures such as mulch and debris removal play a constructive role in frost management.

Liquid seaweed enjoys widespread use within the fruit industry, both domestically in Australia and internationally, particularly for mitigating frost damage early in the season.

However, there are substantial additional advantages to employing Frost Guard, even in seasons devoid of frost:

- A boost in chlorophyll production.
- Augmented uptake of nutrients.
- Heightened tree vitality.
- Enhanced ability to combat water stress.

These benefits are a consequence of the combined influence of plant growth regulators, specifically auxins, betaines, and cytokinins. These regulators, exert their effects primarily through collaboration with other plant growth regulators. The augmentation of chlorophyll production and fortitude against water stress is primarily attributed to the actions of betaines, with minor contributions from auxins which enable increased nutrient uptake and heightened tree vitality.

In grape cultivation, early application of liquid seaweed results in an extended rachis stretch and potentially an enhanced fruit set. The utilisation of liquid seaweeds in later stages of the season yields a plethora of additional benefits, such as amplified yields and improved fruit shelf life.

In typical circumstances, Frost Guard can elevate frost tolerance by 2-3 degrees Celsius for stone fruit, apples, and pears. For grapes, as long as the shoots measure less than 10 cm, the increase in frost tolerance is comparable. As grapevines mature, the frost tolerance augmentation dwindles to around 1.5 degrees Celsius. Wheat and canola benefit even more significantly from increased frost tolerance, although this advantage hinges on the crop's growth stage.

In conclusion, Frost Guard, blending liquid seaweed with added nutrients, presents multifaceted benefits extending beyond frost protection, ultimately contributing to the overall well-being and productivity of plants and crops.

Frost Guard is available in standard formulation or a certified organic formulation. (May have different analysis to meet organic registration)

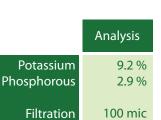
Application rates: Dilute 40ml into 9 ltrs

Product Sizes Available 1 ltr, 5 ltr, 10 ltr, 20 ltr, 200 ltr, 1000 ltr.



#### Key selling points:

- Helps reduce the risks of frost burn and damage
- Seaweed based
- High potassium blend
- Organic formulation available
- 100% Tasmanian Bull Kelp
- Australian Made & Owned



%W/V is grams per 100ml of produc ppm is parts per million on weight basi g/l is grams per litt

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# **High Potassium**





Potassium deficiency is a common issue in intensive agriculture and horticulture. Potassium salts are typically soluble and migrate with soil moisture. Despite a substantial percentage of potassium residing in the soil, it can become locked within solid rocks and minerals, rendering it less available. Some potassium can also be trapped within clay layers, often referred to as "slowly available" potassium. This slowly released potassium becomes accessible to the soil over several years, with the rate varying depending on factors like soil moisture, as well as the chemical and physical properties of the clay.

Adequate potassium is vital for robust plant growth, and its deficiency can lead to stunted growth and diminished yields. While the precise role of potassium in plant growth remains somewhat ambiguous, it enhances resistance to diseases and pests, stimulates growth—especially during the early stages—and is associated with the movement of water, nutrients, and photosynthesis products within plants. Soil tests are the most reliable means of determining potassium availability. If the level falls below 80 ppm, it's likely to adversely affect the crop.

(Conventional soil tests measure only available potassium, not the locked-up portion in rocks, etc.)

The quantity and ease of potassium uptake are influenced by various factors, including soil moisture, temperature, and aeration. No-till farming may reduce potassium levels due to reduced root growth. Unlike other macronutrients like phosphorus and nitrogen, excess potassium doesn't seem to harm plants.

High Potassium is formulated as a foliar feed, containing soluble phosphorus, a small amount of nitrogen, and sulphur, all readily available. Being a foliar fertiliser, most of the potassium in the product enters the plant and becomes immediately accessible when applied correctly. Importantly, the product is chloride-free, avoiding issues associated with high chloride fertilisers like muriate of potash. When applying the product, it's advisable to use a fine spray whenever possible. If a coarse spray is used, additional dilution with water is recommended. Leaf burn is unlikely if the product is applied when the temperature is below 25 degrees Celsius. To minimise the risk of leaf burn, it's prudent to spray later in the day when temperatures are likely to decrease, and humidity is likely to rise.

High Potassium Foliar Feed isn't a balanced fertiliser but serves as a foliar feed to mitigate soil potassium deficiencies or provide additional potassium during periods of high demand. It can be used as a soil drench, but in regions with high rainfall, significant potassium may leach from the soil. High Potassium can be mixed with other products like Superfine, Premium, Spurt, or Quick Grow. When combining, add water and High Potassium to the tank first, followed by Premium, Spurt, or Quick Grow.

High Potassium is available in standard formulation or a certified organic formulation. (May have different analysis to meet organic registration)

#### Application rates

Mix 1 part High Potassium with at least 7 parts water. For pasture, High Potassium can be used at rates of up to 15 ltrs per hectare, with applications every 4-6 weeks.

Product Sizes Available 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- High potassium blend
- Added seaweed
- Ideal fro crops with potassium deficiencies
- Organic formulation available (may have different analysis)
- 100% Tasmanian Bull Kelp
- Australian Made & Owned



	Analysis
Nitrogen Phosphorous Potassium	1.3 % 7.2 % 22 %

Filtration

%W/V is grams per 100ml of produc ppm is parts per million on weight bas g/l is grams per litt

100 mic

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# **High Phosphorous**





Fair Dinkum High Phosphorus is meticulously crafted for use in crop production scenarios, where application is done via fine boom sprayers or through dripper systems. It's tailored for situations demanding a substantial supply of "P" (phosphorus) and "K" (potassium) but minimal "N" (nitrogen), making it ideal for enhancing tuber formation in crops like potatoes.

This product is intricately designed for foliar application and has undergone meticulous filtration down to 100 microns, ensuring seamless operation without clogging spray or dripper nozzles.

Fair Dinkum High Phosphorus can also be employed on perennial pastures to stimulate winter growth. It incorporates compounds known as compatible solutes, which mitigate the impact of cold temperatures on growth. To achieve desired outcomes, multiple applications are required, typically at rates of 4 - 6 Itrs per hectare, spaced at three to four-week intervals.

Application rates Pasture Apply during late autumn, early spring, and late spring at rates of 5-7 ltrs per hectare.

#### Potatoes

To boost tuber formation, apply two separate applications, spaced one week apart, at rates of 3-4 ltrs per hectare. Commence these applications one or two weeks before the end of the tuber initiation period.

Spray during the early morning or late afternoon. Avoid applying in direct sunlight. Dilute 1 part product with at least 20 parts of water.

High Phosphorus can also be utilised as a furrow spray during planting and at two to three-week intervals until one week after the conclusion of tuber formation, at a rate of 5-7 ltrs per hectare per application.

It is essential to thoroughly clean spraying equipment after use to prevent any potential crystallisation of the product in boom sprayers.

Additionally, High Phosphorus can be customised on demand, allowing for adjustments to suit specific requirements.

Product Sizes Available 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- Seaweed based formulation
- Adde phosphorous and potassium
- Added trace elements
- Suitable for boom sprays and drippers
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

AnalysisPhosphorous4.6 %Potassium8.5 %Manganese400 ppmMagnesium1000 ppmFiltration100 mic

%W/V is grams per 100ml of produ ppm is parts per million on weight bas g/l is grams per lit mic = microi

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# **High Calcium NPK**





Fair Dinkum Fertilizers offers a specialised blend known as High Calcium NPK & Trace Element blend, crafted to deliver NPK, calcium, and trace elements to crops. All the nutrients within this product are presented in a form that crops can promptly utilise, and the inclusion of liquid seaweed enhances nutrient mobility within the plant.

#### Calcium

Among all the beneficial nutrients in this product, calcium stands out due to its unique form, making it particularly advantageous in scenarios requiring additional calcium to enhance fruit skin quality and reduce blossom end rot in tomatoes.

Calcium, sulphur, and magnesium are typically classified as the three "secondary" nutrients. While their necessity is lower than that of primary nutrients like nitrogen, phosphorus, and potassium, they are nevertheless vital. Calcium typically exists in plants as calcium pectate, a compound responsible for cell wall strength. Calcium is relatively immobile within plants, and a deficiency manifests first in the fruit and young leaves. New tissues, such as root tips, young leaves, and shoot tips, can often become distorted due to improper cell wall formation caused by calcium deficiency.

Although calcium is rarely deficient in the soil, it can move slowly within plants. It's not uncommon for crops like tomatoes, grapes, and fruits, in general, to exhibit symptoms of calcium deficiency. Copper, Zinc, Manganese & Iron

These trace elements are found in a soluble chelated form in this product, ensuring easy absorption by plants and mobility within them.

#### Other Nutrients

The product also contains modest amounts of nitrogen, phosphorus, and potassium. While these quantities may not suffice for a full year's growth, they provide a valuable contribution. Additionally, the product is fortified with added boron.

#### Seaweed

The infusion of liquid seaweed into the blend introduces small quantities of plant growth regulators such as auxins and betaines. The natural chelates present in liquid seaweed significantly aid the movement of certain trace elements and calcium within the plant.

This product is designed for use as a foliar spray or in dripper systems. When used in dripper systems, it's advisable to flush the lines with water after using the product before introducing any other fertilisers into the system.

#### Application rates

Apply at rates of 5-8 Itrs per hectare, diluted with water at a ratio of 1 part High Calcium NPK to 20 parts water. Up to 10 Itrs per hectare can be used per application.

Product Sizes Available 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- Seaweed based
- Added NPK & trace elements
- Added calcium
- Great for vines post harvest
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

#### 3.5 % Nitrogen Phosphorous 4.6 % Potassium 5.0 % 6000 ppm Calcium 150 ppm Copper Zinc 145 ppm Manganese 130 ppm 1100 ppm Boron Iron 130 ppm lodine 40 ppm Filtration 100 mic

Analysis

%W/V is grams per 100ml of produ ppm is parts per million on weight bas g/l is grams per lit mic = microi

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### Eco Stim





Fair Dinkum Fertilizers Eco Stim is a biostimulant crafted from organic proteins that have undergone breakdown into peptides and amino acids. These components fall within the category of biostimulants known as protein hydrolysates, which have garnered significant attention in Europe over the past decade.

Building upon European research, Eco Stim was further developed in Australia as a new-generation hydrolysate. While Fish Emulsion had previously been the most prevalent protein hydrolysate on the market, Eco Stim now boasts substantial advantages thanks to recent research and technological advances.

Eco Stim offers numerous benefits, including:

- Enhanced growth, yield, and flowering.
- Improved crop quality.
- Increased resilience to abiotic stressors like drought, extreme temperatures, and soil salinity.

Protein hydrolysates encompass a variety of amino acids and peptides. Amino acids and small peptides can be absorbed through both roots and leaves, facilitating their movement within the plant. They are also accessible to soil microbes. Typically, when applied to the soil, the majority of amino acids are utilised by soil microbes, with the remaining portion taken up by plant roots. The quantity absorbed by roots varies significantly based on plant species, variety, and soil conditions. When amino acids are absorbed via soil microbes, their presence stimulates microbial growth, subsequently increasing the availability of previously inaccessible nutrients to the plant.

Eco Stim contains substantial amounts of nitrogen and potassium, making it particularly well-suited for organic crop cultivation and use in mixed pastures, such as in organic dairy farming. Amino acids and peptides are directly employed for synthesising proteins and enzymes.

#### Application rates:

Dilute Eco Stim at a rate of 40 ml (two cap fulls), into 9 ltrs of water Application should occur only when the temperature is below 25 degrees Celsius to avoid the possibility of leaf burn.

Product Sizes Available 1 ltr, 20 ltr, 200 ltr, 1000 ltr.



#### Key selling points:

- Next generation biostimulant
- Great source of peptides and amino acids
- Certified Organic formulation
- Can be used with boom sprays and drippers
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

Nitrogen5.1 %Phosphorous1.2 %Potassium11.7 %Peptides &35 %Filtration100 mic

%W/V is grams per 100ml of produc ppm is parts per million on weight bas g/l is grams per litt mic = micror

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### **Eco Trace**





Fair Dinkum Fertilizers Eco Trace is a thoughtfully crafted blend featuring liquid seaweed, essential trace elements, sugars, and potassium, primarily designed for enhancing pasture. The trace elements are presented in a form that facilitates their movement within both the soil and the plant. This product provides sugars that can be utilised by soil microbes, potentially aiding in unlocking any locked-up phosphorus in the soil. Moreover, the seaweed component promotes root development, enhances fertiliser utilisation, and bolsters resistance to heat and water stress.

In addition to its general benefits for root growth, liquid seaweed is recognised for its ability to increase the formation of root nodules. Root nodules house nitrogen-fixing bacteria, which serve as a crucial source of nitrogen supply to plants. These bacteria can either exist as free-living organisms in the soil or form symbiotic relationships with plants within root nodules.

Root nodules containing nitrogen-fixing bacteria are commonly found in legumes like alfalfa, clover, beans, and peas. Eco Trace also contains a small amount of molybdenum, an essential element crucial for the formation of nitrogenase—an enzyme that plays a pivotal role in enabling nitrogen-fixing bacteria to function effectively.

Eco Trace is suitable for various organic crops. However, organic producers should consider supplementing with nitrogen and phosphorus-based fertilisers to ensure a comprehensive nutrient supply, as Eco Trace, by itself, does not provide all essential nutrients.

In organic dairy farming, pastures typically consist of mixed-species forage containing both grasses and legumes. While legumes can host root nodules, grasses rely on free-living nitrogen bacteria, applied fertilisers, manure, or compost for their nitrogen supply.

Eco Trace is designed to fulfil up to approximately 30% of the trace element requirements when used as recommended on standard dairy pastures. It's highly advisable to conduct soil tests before application. Eco Trace should not be used on pastures with excessive levels of copper, zinc, manganese, boron, or molybdenum. Additionally, it's not recommended for use in areas with extensive prior use of copper-based fungicides.

#### Application rates

Apply at rates ranging from 5-8 Itrs per hectare, diluted with at least 1 part product to 20 parts water. During the growing season, the product can be applied every three to four weeks.

Apply during early morning or late afternoon.

Avoid application when the temperature exceeds 25 degrees Celsius. Whenever possible, exclude livestock for 24 hours to allow Eco Trace to be effectively absorbed by the pasture. Ensure thorough mixing of contents before use.



Analysis

Product Sizes Available 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- Seaweed based formulation
- Allowable organic input
- Formulated to supply trace elements
- Finely filtered for use in boom sprays and drippers
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

Potassium 6.2 % Sulphur 0.7 % Copper 500 ppm Zinc 500 ppm Manganese 100 ppm Boron 60 ppm Molybdenum 10 ppm Filtration 100 mic

> %W/V is grams per 100ml of produ ppm is parts per million on weight bas g/l is grams per lit

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### Increase





Increase is a combination of liquid seaweed enriched with chelated copper, zinc, cobalt, and magnesium. Chelated magnesium is included primarily to aid in the absorption of copper and is present in quantities insufficient to significantly contribute to daily magnesium requirements. On the other hand, copper, zinc, and cobalt levels in this blend provide a substantial portion of the daily mineral needs. Being in chelated form, these minerals are readily absorbed within the animal's gastrointestinal tract. The liquid seaweed component contains various osmoregulatory compounds that significantly enhance gut bacteria, leading to more efficient feed utilisation. Research conducted overseas has indicated that liquid seaweed or the inclusion of dried seaweed in livestock diets can be especially advantageous for cattle, resulting in increased weight gain and enhanced overall health. Many farmers have reported overall improvements in health and vitality when regularly using seaweed extract.

Some specific benefits noted by farmers include: Improved conception rates Enhanced fertility Better reproductive cycling Prevention or reduction of scours in calves Reduced retention of afterbirth Lower incidence of milk fever Elimination of dry coats Enhanced birth and progeny performance Increased wool quality and quantity in sheep Enhanced weight gain Improved coat shine in cattle, horses, and dogs

Some of these effects can be closely associated with the known properties of specific components found in liquid seaweed, such as osmoregulatory substances, antioxidants, and minerals like selenium, cobalt, copper, and zinc.

Increase is available in standard formulation or a certified organic formulation. (May have different analysis to meet organic registration)

#### Application rates

Do not use for animals grazing on pastures with excessive copper content. The recommended daily rate is 1 ml per 50 kg of body weight. For cattle, Increase may be diluted at a ratio of 1 part product to 5 parts water and poured over dry feed.

Alternatively, for cattle, Increase can be added to the drinking trough water. In cases where up to 10 ml per 50 kg of body weight is administered in a single dose, the subsequent dose should not be given for at least 10 days. For calves, Increase may be mixed with milk replacement formula.



Analysis

Product Sizes Available 1 ltr, 20 ltr, 200 ltr, 1000 ltr.

#### Key selling points:

- Seaweed based formulation
- Stimulates gut bacteria for better use of feed
- Easy to apply
- Excellent value for money
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

Seaweed 25 % Boron 100 ppm Cobalt 80 ppm Copper 1.48 g/l Zinc 1.80 g/l Magnesium 1.20 g/l

> %W/V is grams per 100ml of produ ppm is parts per million on weight bas g/l is grams per litt mic - micro

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### **Seaweed Granules**



### Fair Dinkum Fertilizers

Super Munch Seaweed Granules are typically administered to the soil, while Ocean Fines is employed as a nutritional supplement for livestock. When Super Munch come into contact with the soil, the kelp undergoes a remarkable transformation, rehydrating and expanding to approximately five times its original size. Once moistened, the kelp initiates a process of decomposition catalysed by microbial action. This decomposition liberates a treasure trove of nutrients and plant growth regulators.

Within these granules, mineral elements play a pivotal role by directly nourishing plants. The protein and carbohydrates present serve as vital bio-stimulants, not only invigorating soil microbes but also indirectly enriching the nutritional value provided to plants. This harmonious interplay supports the overall health of your soil and plants alike.

Contained within the kelp are a diverse array of plant growth regulators, including auxins, betaines, cytokinins, sterols, and polyphenols. These regulators orchestrate a symphony of growth-promoting actions within plants. They stimulate the development of robust root systems, trigger cell division for healthy growth, and enhance chlorophyll production, ultimately leading to vibrant and thriving plants.

In essence, the application of granules introduces a cascade of benefits, fostering an environment where your soil thrives, microbes flourish, and your plants can reach their full potential.

Product Sizes Available 1 kg, 3 kg, 25 kg.



	Analysis
Nitrogen	1.2%
Phosphorus	0.68%
Potassium	3.36%
Calcium	1.4%
Sulphur	1.2%
Magnesium	0.69%
Sodium	1.45%
Iron	260 ppm
Manganese	8.9 ppm
Zinc	29 ppm
Copper	8.5 ppm
Cobalt	0.14 ppm
Boron	130 ppm
lolybdenum	0.13 ppm
Alginic Acids	28%
Laminarin	1.6%
Mannitol	2.9%
Proteins	10%

#### Key selling points:

- Granulated for easy application
- Allowable organic input
- Storm cast, air dried seaweed
- Great for stimulated soil microbes
- 100% Tasmanian Bull Kelp
- Australian Made & Owned

%W/V is grams per 100ml of produ ppm is parts per million on weight bas g/l is grams per lit

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### **Seaweed Meal**



# Fair Dinkum Fertilizers DRIED SEAVVEED



Ocean Fines, whilst similar to Granules in composition, undergoes an additional refinement process, reducing it to a particle size of less than 2mm to render it suitable for consumption by animals. Within this meal lies a wealth of compounds that offer substantial benefits to animal health, including an array of trace elements uniquely structured for absorption within the mammalian gut.

Notably, it stands as a potent natural source of iodine, a critical nutrient that is severely deficient in the vast majority of Australian pastures. Moreover, it contains modest yet vital quantities of selenium, copper, zinc, and magnesium, contributing further to the nutritional well-being of animals.

Our premium Australian bull kelp, in contrast to certain imported seaweeds, boasts low levels of heavy metals. This remarkable seaweed also boasts a relatively high content of osmoregulatory compounds, which actively stimulate gut bacteria, culminating in enhanced feed utilisation by animals. Additionally, it harbours an array of antioxidants and plant sterols that significantly augment animal health.

Farmers who have incorporated Fair Dinkum Fertilizers Ocean Fines into their practices have reported a range of advantages, including:

- Enhanced fertility among their animals.
- A notable uptick in overall animal health.
- Reduced instances of afterbirth retention.
- Diminished worm burdens.
- Improvement in the texture and sheen of animals' coats.

Ocean Fines, when fed to animals, is typically recommended at a rate of approximately 5 grams per 100 kilograms of body weight. On occasion, some livestock may initially exhibit reluctance to consume the meal, but this can often be overcome by introducing a minute quantity of molasses.

For equines, it is imperative not to exceed daily intake beyond 25-30 grams to prevent any adverse effects, such as watery faeces, that may result from excessive consumption.

Product Sizes Available 1 kg, 3 kg, 25 kg.

#### Key selling points:

- Finely granulated for use as an animal feed additive
- Stimulates gut bacteria
- Storm cast, air dries seaweed
- Sustainably harvested
- 100% Tasmanian Bull Kelp
- Australian Made & Owned



Analysis

Nitrogen	1.2%
Phosphorus	0.68%
Potassium	3.36%
Calcium	1.4%
Sulphur	1.2%
Magnesium	0.69%
Sodium	1.45%
Iron	260 ppm
Manganese	8.9 ppm
Zinc	29 ppm
Copper	8.5 ppm
Cobalt	0.14 ppm
Boron	130 ppm
1olybdenum	0.13 ppm
Alginic Acids	28%
Laminarin	1.6%
Mannitol	2.9%
Proteins	10%

%W/V is grams per 100ml of produppm is parts per million on weight bas g/l is grams per liti

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# **Eradicate Snail Bait**



Introducing Eradicate Snail and Slug Killer – an innovative bait meticulously crafted from grains and powered by an iron EDTA complex as its active ingredient.

This groundbreaking product offers effective targeting of slugs, snails, and even woodlice while exhibiting minimal toxicity towards non-target creatures like cats, dogs, native mammals, birds, and earthworms.

When applied following the label's guidelines, this product poses no danger to pets. Nonetheless, it is crucial to store it securely out of reach from pets, farm animals, and children. Notably, the active ingredient is not classified as a scheduled poison, and there is no required waiting period for food crops after its application.

The development of Eradicate Snail and Slug Killer stems from a collaborative effort between scientists affiliated with The University of Melbourne and La Trobe University, in conjunction with industry experts. Leveraging cutting-edge molecular wrap technology, this product utilises an iron compound that is enticing to slugs and snails.

Upon ingestion, the molecular wrap dissolves within the gastropods' digestive system, releasing the iron in a hydrated ion form as it enters their bloodstream. Diverging from traditional approaches that employ metaldehyde or methiocarb baits, this unique mechanism allows the active ingredient to take effect gradually. Consequently, slugs and snails have the opportunity to retreat to their hiding spots before succumbing, sparing the surroundings from an accumulation of deceased gastropods.

Eradicate Snail and Slug Killer boasts exceptional versatility, proving effective in both dry and high-moisture environments. Its rain fast properties are attributed to a specialised bait technology exclusively developed for this formulation, distinguishing it from other products containing the same active ingredient.

While the toxicity of iron to snails and slugs has been known for decades, it wasn't until 1996 that the first iron-based product was introduced in Europe and Australia. This marked a significant milestone in pest control innovation, setting the stage for Eradicate Snail and Slug Killer to emerge as a revolutionary solution.

Eradicate...kills snails & slugs dead!

Product Sizes Available 600 grams, 25 kg, 500 kg, 1000 kg

Active Ingredient 60 grams/kg Iron EDTA Complex

#### Key selling points:

- Zero poison bait
- Effective on snails, slugs & slaters
- Active ingredient is a food additive
- Non toxic to pets when used as directed
- Rain Fast formulation
- 100% Australian Made & Owned

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# **Eradicate ECO**





Introducing Eradicate Eco Snail and Slug Bait, a groundbreaking product featuring iron powder as its active ingredient.

Originally conceived by two Polish scientists, a similar active ingredient paved the way for the development of Eradicate ECO, specially tailored to Australian conditions under the guidance of a Melbourne-based scientist. While its mode of action mirrors that of Eradicate, the iron undergoes oxidation before crossing the gut lining into the bloodstream. Similar to Eradicate, this formulation exhibits minimal harm to pets and native wildlife.



The active component poses slightly less harm in aquatic environments compared to ferric EDTA, although both maintain a low level of toxicity. When used in accordance with label instructions, the product presents no significant risk of toxicity to pets or wildlife. However, proper storage guidelines must be followed, and the product should be kept out of reach of children, pets, and farm animals.

Utilising advanced pellet technology, the resulting pellets are rain-resistant and effective even in damp conditions. Like the Eradicate variant, there is a delay before snails or slugs exhibit symptoms of distress, typically retreating to their hiding places before succumbing. It's worth noting that snails and slugs are often found some distance away from the bait.

This product also proves highly effective against the white snail variety.

For optimal results, treatment is best administered during late autumn rather than spring. During early spring, these snails engage in mating activities and can produce a substantial number of offspring, often exceeding two hundred.

They exhibit voracious feeding patterns, followed by a summer period of plant ascent, similar to estivation. Bait consumption typically occurs upon their return to the ground after rainfall, which usually happens in early autumn.

White snail populations can multiply significantly if left unchecked, posing a substantial threat to broad-acre farming and increasingly infiltrating domestic gardens. Swift intervention with a molluscicide is recommended if white snails are observed in your garden.

The product's organic production certification from the Organic Food Chain is noteworthy, establishing its eligibility as an approved input within organic farming practices.

Eradicate...kills snails & slugs dead!

Product Sizes Available 1 kg, 2.5 kg, 25 kg, 500 kg, 1000 kg

Active Ingredient 10 grams/kg Iron Powder

#### Key selling points:

- Zero poison bait
- Allowable organic input
- Effective on snails, slugs and slaters
- No withholding periods
- Rain fast formulation
- 100% Australian Made & Owned



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