



# Fair Dinkum Fertilizers

*manufacturers of quality fertilizer products*

# Product Guide

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Gr	Hp	Go	Fi



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# Welcome

Founded in 2002, Fair Dinkum Fertilizers strives to provide the highest quality products it can, while keeping the price affordable for the growers of today.

We are not just about selling a product, we are about ongoing relationships and are committed to providing the best possible technical support with our products. All of our products are backed by a combined knowledge and experience over of 45 years within the industry.

This product guide is designed to be a tool to help in the recommendation of products from the Fair Dinkum Fertilizers product range. While it lists many products, Fair Dinkum Fertilizers are continuing to develop new products all the time, and can also develop custom formulations if needed.

You can always stay up to date by checking online at [www.fairdinkumfertilizers.com](http://www.fairdinkumfertilizers.com) for updates to this product guide.

We trust that this book will be an asset to you.



# Contact Details

## Manufacturing Facilities:

Melbourne:  
4 Glenbarry Rd  
Campbellfield VIC 3061

P: (03) 9357 5488  
F: (03) 9357 5388  
E: [office@fairdinkumfertilizers.com](mailto:office@fairdinkumfertilizers.com)

## Sales:

James Young - (General Manager)  
M: 0418 393 322  
E: [james@fairdinkumfertilizers.com](mailto:james@fairdinkumfertilizers.com)

Steve Harris - (Operations Manager)  
M: 0417 015 569  
E: [steve@fairdinkumfertilizers.com](mailto:steve@fairdinkumfertilizers.com)

## Technical Support:

Colin Young  
M: 0407 054 430  
E: [colin@fairdinkumfertilizers.com](mailto:colin@fairdinkumfertilizers.com)

## Accounts / Administration:

Sue Jamison  
P: (03) 9357 5488  
E: [accounts@fairdinkumfertilizers.com](mailto:accounts@fairdinkumfertilizers.com)  
E: [office@fairdinkumfertilizers.com](mailto:office@fairdinkumfertilizers.com)

[www.fairdinkumfertilizers.com](http://www.fairdinkumfertilizers.com)

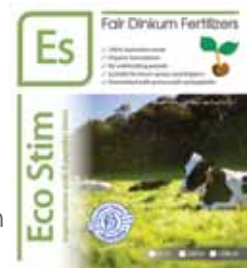


# Eco Stim



## organic amino acids and peptides blend

Fair Dinkum Fertilizers **Eco Stim** is a biostimulant made from organic protein which has been broken down into peptides and amino acids. These components belong to a group of biostimulants, referred to as protein hydrolysates, which have received much attention in Europe during the last decade.



Based on European research, **Eco Stim** was further developed in Australia as a new generation hydrolysate. Previously Fish Emulsion has been the most common protein hydrolysate on the market, but with new research and technological advances, **Eco Stim** is now able to deliver considerable advantages.

Some of the advantages of **Eco Stim** are as follows:

- Increased growth, yield and flowering
- Increased crop quality
- Increased resistance to abiotic stress such as drought, high and low temperature and soil salinity.

Protein hydrolysates contain a number of amino acids and peptides. Amino acids and small peptides can be absorbed by both the roots and leaves and move into the plant. They can also be used by the soil microbes. In fact, when applied to the soil usually most of the amino acids are used by soil microbes and the remainder is taken up by the plant roots. The actual amount taken up by the roots varies considerably with plant species / variety and soil conditions. When amino acids are taken up via the soil microbes, soil microbes multiply in number which in turn increases the availability of previously locked up nutrients to the plant.

**Eco Stim** contains significant amounts of nitrogen and potassium and is particularly suited to organic crop production and for use in mixed pastures such as organic dairy farming. Amino acids and peptides are used directly for protein and enzyme synthesis.

**Eco Stim** can be used on a wide range of plants, including vegetables, agricultural and horticultural crops.

### Application Rates

**Eco Stim** should be used at a rate of 5-8 L/ha.

**Eco Stim** should be diluted at least 1 part product with 20 parts with water and should only be applied when the temperature is less than 25 degrees C, to avoid the possibility of leaf burn.

When used on pasture it is recommended that animals are not allowed to graze on the pasture for at least 10 days to allow time for the hydrolysate to enter the plant and commence working.

**Eco Stim** can be applied multiple times during the pasture growing season provided there is adequate moisture.

Allow at least 3 weeks between applications.



Approved Organic Input

Analysis	
Nitrogen	5.1 %
Phosphorus	1.2 %
Potassium	10.8 %
Peptides & Amino Acids	35 % min
Filtration	100 mic

### Product size

5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Eco Trace



## organic trace element blend

**Eco Trace** is a blend of liquid seaweed, added trace elements, sugars and potassium designed primarily for use on pasture. The trace elements are in a form that allows them to move in the soil and in the plant.

Soil microbes can benefit from the sugars in this product, which in turn can assist in unlocking any phosphorus that may be locked up in the soil. In addition the seaweed component increases root development, fertilizer utilisation and provides increased resistance to heat and water stress.



Besides generally enhancing root growth, liquid seaweed is known to increase the number of root nodules. Nitrogen-fixing bacteria are an important source of nitrogen supply to plants, they can be free living organisms in the soil or living within root nodules in a symbiotic relationship with plants. Root nodules containing nitrogen-fixing bacteria occur in legumes such as alfalfa, clover, beans and peas.

In organic dairy farming, the pasture is usually based on mixed species forage which contains both grasses and legumes. Grasses do not contain root nodules, so their nitrogen supply must come from free living nitrogen bacteria or applied fertilizer, manure or compost.

**Eco Trace** also contains a small amount of molybdenum and this is an essential element for the formation of nitrogenase, an enzyme which is the key protein which enables nitrogen-fixing bacteria to function.

**Eco Trace** is suitable on a range of organic crops. Organic producers should also consider application of nitrogen and phosphorus based fertilizers, (such as **Eco Stim**), to provide a complete feed as **Eco Trace** is not a complete feed on its own.

**Eco Trace** is designed to contribute up to about 30% of trace element requirements when used as recommended on typical dairy pasture. It is strongly recommended that the trace element levels in the soil are checked prior to use. **Eco Trace** should not be used on pasture which has an excess of copper, zinc, manganese, boron or molybdenum. We also do not recommend use where there has been extensive use of copper fungicides.

### Application Rates

Apply at a rate of 5 to 8 L/ha diluted at least 1 part to 20 parts with water.

In the growing season the product can be applied every 3-4 weeks.

Apply early morning or late afternoon.

Do not apply if temperature is over 25 degrees C.

Livestock should be excluded, if possible, for 24 hours to allow **Eco Trace** to be absorbed by the pasture.

Ensure contents are mixed well prior to use.



Approved Organic Input

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

### Product size

5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Fish Emulsion



## finely filtered liquid fish

Fair Dinkum Fertilizers **Fish Emulsion** is manufactured using only 100% organic fish by-products. In association with other Australian companies, this product has been processed to provide the maximum benefit in its application, whilst being economically advantageous.



Fair Dinkum Fertilizers **Fish Emulsion** consists of deep sea catch fish, primarily tuna and salmon varieties, is then broken down through an enzyme digestion, denatured to stabilise the product shelf life, emulsified added to reduce the separation of fats and oils which is traditional in many fish products, and then finely filtered to enable the effective application through boom sprays and or dripper systems.

The application of **Fish Emulsion** can also be utilised to reduce or replace the direct treatment required by conventional nitrogen based fertilizers. In addition, the combination of nitrogen, potassium, phosphorus, calcium, fats and oils in the product, make for a very effective organic mix with regard to nutrients, which are fundamental for improved plant growth.

The most common applications for **Fish Emulsion** are:

- Soil conditioning prior to planting
- Direct foliar application
- Pasture and crop top dressing
- As a biological boost for composting.

Fair Dinkum Fertilizers **Fish Emulsion** product is filtered to 100 micron to aid in the application process, either through a fine boom spray or dripper systems. Fair Dinkum **Fish Emulsion** is often used to increase the microbial activity in the soil either by direct application or as a component of "compost tea". If used in compost tea the **Fish Emulsion** should be mixed with liquid seaweed and either humate or fulvate. Fair Dinkum Fertilizers are able to offer some advice on making compost teas if required.

### Application Rates

Dilute at 1 part product with 20 parts water and mix thoroughly.

### Pasture

Apply 8-10 L/ha at approximately 3 weeks intervals during the growing season.

### General Horticulture

Apply at a rate of 8-10 L/ha at 2-3 week intervals during the growing season.

### Home Garden

Apply 50ml into 10ltrs of water over 400 square metres every 2-3 weeks.



Available in Organic Specification

	Analysis
Nitrogen	2.5 %
Phosphorus	0.3 %
Potassium	0.25 %
Calcium	0.5%
Fats & Oils	3.0 %
Filtration	100 mic

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns



# Frost Guard



## enhanced frost protection

**Frost Guard** is a blend of liquid seaweed and electrolytes which increases frost resistance in a wide range of crops. It also can be used, with care, to reduce heat stress. The use of **Frost Guard** as a frost protectant can be regarded as "limited insurance" against loss due to frost. It should be remembered that no strategy is 100% guaranteed to eliminate frost damage and other procedures such as removing mulch and trash are helpful in managing frost. Liquid seaweed is extensively used in the fruit industry both in Australia and overseas. For frost damage reduction liquid seaweed is used early in the season.



There are considerable additional benefits of using **Frost Guard** even if there are no frosts in the season, including;

- An increase in chlorophyll production
- Increased tree vigor
- Increased nutrient uptake
- Increased ability to deal with water stress.

These benefits arise by a combined action of plant growth regulators, auxins, betaines and possibly cytokinins. Because they have a function in plants akin to that of hormones in animals, they are sometimes referred to as plant hormones. Plant growth regulators do not, in general, act individually but in conjunction with other plant growth regulators. Increased chlorophyll production and the ability to deal with water stress are reported as principally due to the action of betaines, with some minor influence of auxins. Increased nutrient uptake and increased tree vigor are due principally to auxins alone.

In grapes, early application of liquid seaweed will lead to increased rachis stretch. It is also possible to increase fruit set by application of liquid seaweed. The use of liquid seaweeds later in the season can lead to an array of other benefits, such as increased yields and better keeping quality of fruit.

In typical situations **Frost Guard** can increase frost tolerance by 2-3 degrees C in stone fruit, apples and pears. In grapes the increase in frost tolerance is similar provided the shoots are less than 10 cm. At later stages of growth in vines the increase in frost tolerance is about 1.5 degrees C. For wheat and canola the increase in frost tolerance is greater but depends on the growth stage of the crop.

**Frost Guard** contains additional nutrients such as added potassium and a small amount of phosphorus which have additional beneficial effects. When potassium and phosphorus are applied as foliar sprays, they are rapidly absorbed into the foliage with minimal loss. Because of its high potassium level, its use may increase fruit set.

### Application Rates

**Stone Fruit** - Apply 3-4 L/ha every 10-12 days diluted 1 part product with 20 parts water.

**Grapes** - If shoots are less than 10cm, apply at 3-4 L/ha every 10-12 days, and if shoots are longer, apply 3-4 L/ha every 7-9 days.

**Canola** - Apply 3-4 L/ha every 10-12 days throughout the frost danger period, starting 7-10 days before pod fill. **Frost Guard** should not be used on Australian Natives.



		Analysis
Potassium		9.2 %
Filtration		100 mic

		Analysis
Potassium		9.2 %
Phosphorus		2.9 %
Filtration		100 mic

### Product size

5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Gold / Seaweed

## alkaline liquid seaweed concentrate

Fair Dinkum Fertilizers **Gold** is made from fresh Australian bull kelp, (*Durvillea potatorum*), collected from the rugged North West coast of Tasmania. It is digested using a warm hydrolysis process specially developed for the brewing of fresh kelp by Fair Dinkum Fertilizers. The process maximises the extraction of the plant growth regulators. **Gold** has been extensively tested in both laboratory and in the field.

The plant growth regulators or hormones it contains, including auxins, cytokinins, betaines, sugars and phenolics, are stable compounds in the product and lead to increased chlorophyll production, increased root development, increased tolerance with environmental stresses caused by drought, frost, insect attack and salinity, and an increased uptake of "locked-up" nutrients in the soil.

**Gold**, has been found to give significant increases in root development in a range of plants including ornamentals, vegetables and cereals. Best results are obtained by two or more applications between 3-5 L/ha. The results are more marked if the application is made in the early stage of plant development. **Gold** is not recommended for treatment on potatoes before tuber initiation as this will lead to an increased number of small potatoes. (This may be used to advantage for seed potato production).

**Gold** contributes to greater microbial activity in the soil and this in turn, together with greater root development, leads to increased nutrient availability. Spraying sensitive crops such as citrus, capsicum and tomatoes with **Gold** can reduce damage from late frost. In drought conditions, plants sprayed with **Gold** have a better survival rate than unsprayed plants. In saline soils, **Gold** significantly increases plant vigour. In marginal land, the correct use of **Gold** can make the difference between a profitable return, or a loss.

### Application Rates

#### Pasture

Apply 10 L/ha (2 applications of 5 L/ha separated by 6 weeks if possible).  
Apply early spring, late spring and or late autumn.

#### Crops

Apply at early leaf stage and then follow up sprays at 2-3 week intervals.  
Apply a total of 10-15 L/ha in no more than 6 sprays.

Whilst **Gold** is not a complete fertilizer solution, it can be complemented with other products that have additional phosphorus and nitrogen.



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

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# High Calcium NPK



## NPK seaweed blend with added calcium

Fair Dinkum Fertilizers **High Calcium NPK** & trace element blend is designed to supply NPK, calcium and small amounts of trace elements to crops. All nutrients are in a form which can be readily utilised by the crop and the liquid seaweed in the product increases the mobility of the nutrient in the plant.



### Calcium

Although all of the nutrients in this product are beneficial, the form of the calcium makes the product particularly useful in situations where additional calcium is needed to improve skin quality in fruit production and reduce blossom end rot in tomatoes.

Calcium, sulfur and magnesium are generally classified as the three "secondary" nutrients. The amount of secondary nutrients needed is less than the amount of the primary nutrients, nitrogen, phosphorus and potassium but are still essential. Calcium is usually present in plants as calcium pectate which is the compound responsible for the strength of cell walls. Calcium is not particularly mobile in plants and a deficiency of calcium is first noticed in the fruit and young leaves. Any new tissue, such as root tips, young leaves and shoot tips often become distorted because of improper cell wall formation due to calcium deficiency. Calcium is rarely deficient in the soil, but because calcium is often in an insoluble form it moves slowly in the plants. It is not uncommon for tomatoes, grapes and fruit in general to show symptoms of calcium deficiency.

### Copper, Zinc, Manganese, Iron, Boron / NPK

These trace elements are present in this product in a soluble chelated form so they can readily absorbed by the plant and move within the plant. The product also contains small amounts of nitrogen, phosphorus and potassium. The amounts of these nutrients are insufficient for a full year's growth but supply enough to make a valuable contribution. The product also contains added boron.

### Seaweed

The addition of liquid seaweed to the blend provides plant growth regulators such as auxins and betaines. The natural chelates in the liquid seaweed also significantly help some trace elements and calcium move within the plant.

This product is designed for use as a foliar spray or for use in dripper systems. If used in dripper systems it is recommended that after using the product the lines are flushed with water before any other fertilizer is used in the system.

### Application Rates

Dilute at least 1 part product to 200 parts of water. If using in a dripper system flush with water thoroughly after use. May be applied as a foliar spray if temperature is below 23 degrees C. Mixing with other liquid fertilizers or insecticides is not recommended.

### Grape Vines or Fruit Trees post harvest

Apply at rate of 5-8 L/ha post harvest.

### Potatoes

Apply at rate of up to 10 ltrs per hectare pre emergence or 5 L/ha post-emergence.

### Product size

20ltr - 200ltr - 1000ltr

	Analysis
Nitrogen	3.5 %
Potassium	5.0 %
Phosphorus	4.6 %
Calcium	6000 ppm
Copper	150 ppm
Zinc	145 ppm
Manganese	130 ppm
Boron	110 ppm
Iron	130 ppm
Iodine	40 ppm
Filtration	100 mic

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# High Phosphorus



liquid seaweed with added K, P & trace elements

Fair Dinkum Fertilizers **High Phosphorus** is a liquid seaweed product specially formulated for use in the production of crops where application is by fine boom spray or dripper systems. It is designed for use in situations where a high level of Phosphorus and Potassium are needed but low Nitrogen, such as in increasing the tuber set of potatoes.



It also contains a range of trace elements, including magnesium and manganese, which are commonly deficient in Australian soils. **High Phosphorus** has been specially designed for foliar application and has been filtered to 100 micron to avoid any blocking of spray nozzles. Some components may crystallise out in cold conditions and it is therefore prudent to use spray filters.

Fair Dinkum **High Phosphorus** may also be applied to perennial pasture to encourage growth in winter as it contains substances called compatible solutes which reduce the effects of cool temperatures on growth.

Several applications need to be made at about 4 - 6 L/ha at three to four week intervals.

## Application Rates

### Pasture

Apply late Autumn, early Spring and late Spring at a rate of 5-7 L/ha.

### Potatoes

It is possible, by correct timing and application rates, to significantly increase the size and number of potatoes produced by each plant and to partially control the devastating effects of late blight.

### To reduce tuber re-absorption

Apply **High Phosphorus** at the end of tuber set at 10 L/ha. Avoid applying any nitrogen until at least two weeks after the end of tuber set.

### To increase yield and to obtain more even sized tubers

Significant increases in yield (typically 7-10%) can be obtained by foliar application of liquid seaweed late in the growing season. Apply Fair Dinkum **Gold**, **Superfine** or **Premium** at 5-7 L/ha at 6, 4 and 2 weeks before expected harvest or haulm death.

When using to increase tuber set, apply two applications one week apart at 4-5 L/ha starting one or two weeks before the end of the tuber initiation period. Spray in early morning or late afternoon. Do not apply in full sun. Dilute 1 part product with a least 20 parts of water.

**High Phosphorus** may also be used as a spray in furrow when planting and at two or three weekly intervals up until 1 week after the end of tuber set at a rate of 5-7 L/ha per application.

Spraying equipment should be thoroughly cleaned after use to avoid any possibility of product crystallizing in boom sprays.

Analysis	
Phosphorus	4.6 %
Potassium	8.5 %
Manganese	400 ppm
Magnesium	1000 ppm
Filtration	100 mic

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

## Product size

20ltr - 200ltr - 1000ltr

# High Potassium



## high potassium and phosphorus blend

Potassium deficiency is quite common in intensive agriculture and horticulture. Although there is often a considerable percentage of potassium present in the soil, it can be locked up in solid rocks and minerals, and some is not freely available as it is trapped in clay layers. Potassium is essential for growth and a deficiency results in stunted growth and reduced yields. The exact function of potassium in plant growth is not definitive, but it has been found to improve resistance to disease and insect attack, stimulate growth, (particularly early growth), and is associated with movement of water, nutrients and products of photosynthesis in plants.



**High Potassium** is designed as a foliar feed and contains soluble phosphorus and a small amount of nitrogen and sulphur, all in a readily available form. Being a foliar fertilizer most of the potassium in the product gets into the plant and is immediately available if applied correctly. The product contains no chloride so its use avoids the problems associated with high chloride fertilizers such as muriate of potash.

When applying the product a fine spray should always be used where possible. If a coarse spray is used it is recommended to dilute with additional water. Leaf burn should not occur provided the product is applied when the temperature is below 25 degrees C. Since leaf burn is more likely to occur when the humidity around the leaf is low, it is prudent to spray later in the day when the temperature is likely to fall and the humidity is likely to increase.

Fair Dinkum Fertilizers **High Potassium** is designed to be used as a foliar feed to minimize the effect of a soil potassium deficiency or to supply additional potassium when there is high demand. It can be used as a soil drench, but in high rainfall areas a significant amount of potassium may be washed out of the soil.

**High Potassium** may be tank mixed with **Superfine, Premium, Spurt** or **Quick Grow**. The water and **High Potassium** should be added to the tank first then **Premium, Spurt** or **Quick Grow** added.

This product should NOT be mixed with **GOLD** and with most other liquid seaweeds as they are incompatible with **High Potassium**.

### Application Rates

Mix 1 part **High Potassium** with at least 7 parts water. Do Not apply if temperature is over 25 degrees C. If possible apply in late afternoon, early evening.

### Pasture

Use up to 15 L/ha of **High Potassium**, treatment may be repeated at four weekly intervals during the high growth period and at six weekly intervals in the moderate growth period.

Do not apply if soil moisture and growth are low.



	Analysis
Nitrogen	1.3 %
Phosphorus	4.0 %
Potassium	9.2 %
Filtration	100 mic

	Analysis
Nitrogen	1.3 %
Phosphorus	7.2 %
Potassium	22.0 %
Filtration	100 mic

**Product size**  
20ltr - 200ltr - 1000ltr

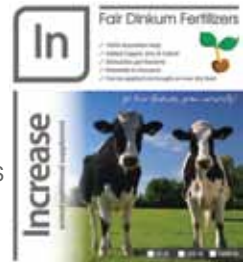
%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Increase



## animal nutritional supplement

**Increase** is a blend of liquid seaweed with added chelated copper, zinc, cobalt and magnesium. The copper, zinc and cobalt make a significant contribution to the daily requirement for these minerals. Being in chelated form, these minerals are easily absorbed in the animals gut. The chelated magnesium is simply present to help the absorption of copper, as such its level is too low to contribute significantly to the daily requirement for magnesium. The liquid seaweed contains a number of osmoregulatory compounds significantly enhance the gut bacteria leading to greater utilization of feed.



Overseas research has shown that liquid seaweed or feeding of dried seaweed is particularly beneficial to cattle, leading to greater weight gain and improved general health. Many farmers have reported a general increase in health and vigour after using seaweed extract on a regular basis.

Among the particular benefits farmers have commented on are the following;

- An increase in conception rates
- Increase in fertility
- Better cycling
- Prevention or reduction of scours (calves)
- Reduction in afterbirth retention
- Reduction in milk fever
- Elimination of dry coat
- Improved birth / progeny performance
- Increase in wool quality and quantity (sheep)
- Increase in weight gain
- Improvement in coat shine (Cattle, horses, dogs).

Some of these effects can be closely linked with the known effects of particular components of the liquid seaweed such as osmoregulatory materials, antioxidants and minerals such as selenium, cobalt, copper and zinc.

### Application Rates

The recommended daily rate is 1 ml per 50 kg body weight.  
Do not use on animals where pasture has an excessive copper content.

**Increase** may be diluted with 1 part product to 5 parts water and poured over dry feed. Alternatively for cattle **Increase** may be added to water in the drinking trough. Up to 10 ml per 50 kg body weight may be given in one dose, but in such cases the next dose should not be given for at least 10 days.

For calves **Increase** may be added to milk replacement formula.



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

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Mate/Vegetables



## alkaline liquid seaweed boosted with humate

Fair Dinkum liquid seaweed **Mate / Vegetables** is a blend of seaweed and potassium humate, (the potassium salt of humic acid), which is essentially the component of humus which is stable over a long period and soluble in alkali.

**Mate** is particularly suitable for light sandy soils and for soils that have phosphorus locked up in them. This product will give beneficial results in almost all soils but should not be used on soils contaminated with excess copper, zinc, cobalt and manganese, as it may release these and they may be taken up by the plants.

The liquid seaweed used in **Mate** has been extensively tested in both laboratory and field situations. It contains a number of plant growth regulators, (hormones), including auxins, cytokinins and betaines. It also contains sugars and phenolics. These compounds are stable in the product and lead to increase chlorophyll production, increased root development, increased tolerance of environmental stress caused by drought, frost, insect attack and salinity, along with increased uptake of "locked-up" nutrients.

The potassium humate used in **Mate** has been shown in Australian University studies to increase plant uptake of locked-up trace elements and phosphorus in the soil. It has also been shown to increase the water holding ability of the soils and increase the CEC, (cation exchange capacity), of soils.

### Application Rates

Consult individual crop recommendations where available.

Dilute at least 1:20 with water.

This product may be applied as a soil drench but can stain concrete and painted surfaces in home garden situations.

### Pasture

Apply 10 L/ha at early leaf stage and then follow up sprays at 2-3 weeks intervals.

Apply a total of 10-15 L/ha in no more than 6 sprays.

### Lawn/Turf

Apply 5-6 L/ha in early spring, late spring and late autumn.

Water in with at least 400 L/ha.



		Analysis
Potassium		3.5 %
Seaweed		23 %
Non seaweed solids		11.8 %
Filtration		100 mic

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# MultiFeed



## NPK nutritional boost

**MultiFeed** is an organically based liquid fertilizer and soil improver, specifically developed to provide fast acting nutrition for crops and pasture via its combination of seaweed, humates and amino acids. **MultiFeed** is the result of many years of research and it's fast acting benefits include:

- Increased plant growth and vitality
- Promotes flowering and fruit production
- Improves soil structure
- Feeds soil microbes and encourages nutrient absorption.



**MultiFeed** contains the major NPK nutrients and trace elements in a form which are readily taken up by crops. The humate in **MultiFeed** has good chelating properties for trace elements, making the nutrients in the soil available for use by plants. It also helps to hold soluble nutrients in sandy soils.

Liquid seaweed contains a number of substances known as plant growth regulators (PGR's), these and other compounds in seaweed can have dramatic effect on plant growth. Seaweed also contains small amounts of amino acids which can be transformed into plant growth regulators, including some auxins. Auxins are PGR's which have a significant effect on root development. The liquid seaweed used in **MultiFeed** is Fair Dinkum Fertilizers **Superfine** which is made from Australian Bull Kelp. Amino acids are needed to feed the soil microbes and also contain substances which reduce leaching of nutrients from the soil. The amino acids in **MultiFeed** come from the breakdown of proteins from seaweed and other organic material. Amino acids have relatively small molecules and they can be easily absorbed through the foliage, can be exuded through the roots to feed the microbes in the soil around the root, and they are also, in general, mobile in the plant.

**MultiFeed** contains a blend of amino acids including "essential" amino acids. These acids are needed by the organism but cannot be manufactured by it. Some of the amino acids in **MultiFeed** are essential amino acids for soil microbes, and other amino acids save the organism energy otherwise needed to produce them.

**MultiFeed** can be used to supply all of the required nutrients in crops with low to moderate nutrient requirements or as a supplement when the soil has insufficient nutrient in periods of high nutrient demand.

### Application Rates

Dilute at 1 part product with 30 parts water and mix thoroughly.

### Pasture

Apply 10-20 L/ha at approximately 4 weeks intervals during the growing season.

### General Horticulture

Apply at a rate of up to 20ltrs p/ha at 3-4 week intervals during the growing season. Care needs to be taken so as not to stain the foliage when growing leafy plants.

### Home Garden

Apply 40ml into 9ltrs of water every 2-3 weeks.

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

	Analysis
Nitrogen	12.0 %
Potassium	1.4 %
Phosphorus	5.3 %
Zinc	600 ppm
Molybdenum	10 ppm
Boron	65 ppm
Manganese	100 ppm
Filtration	100 mic

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns



# Premium



## added NPK & trace element blend

**Premium** is specifically formulated for the use in production of crops where application is by fine boom spray, aerial spray or dripper systems. It is particularly suitable for cereal and brassica, (turnips, swedes and rape) and fodder crops when these are grown as part of an overall rotational system in mixed animal and crop farming. It is also suitable for application to pasture.

**Premium** contains macronutrients, nitrogen, phosphorus and potassium, which are soluble and can be absorbed through the leaves of the plant. It also contains a range of trace elements including copper and zinc, which are commonly deficient in Australian soils. These trace elements are in a chelated form and can be absorbed either through the leaves or from the soil.



This product has been specifically designed for foliar application and has been filtered to 100 micron to avoid blockage of spray nozzles. Some components may crystallise out in cold conditions and it is prudent to use spray filters.

**Premium** may be applied to perennial pasture to encourage growth in winter as it contains substances called compatible solutes which reduce the effects of the cool temperatures on growth. Several applications need to be made at about 4-6 L/ha at three to four week intervals. Contact Fair Dinkum Fertilizers if you require further information.

### Application Rates

Spray in early morning or late afternoon. Do not apply in full sun. Dilute 1 part product to at least 20 parts water.

### Cereals

Apply 10-15 L/ha at four leaf stage or soon after, or two applications of 5-7 L/ha, the first at four leaf stage and the second 2-3 weeks later.

### Pasture

Apply 5-7 L/ha late Autumn, early Spring and late Spring.

### Brassica

Apply 5-7 L/ha when tops are 5-8cm high and repeat two or three more times at 2-3 week intervals. In order to reap the benefits of increased growth, spray at least 2 weeks before allowing stock to graze on treated pastures.

Spraying equipment should be thoroughly cleaned after use to avoid product crystallizing in the spray system.

	Analysis
Nitrogen	5.7 %
Phosphorus	1.0 %
Potassium	5.6 %
Sulphur	6000 ppm
Copper	555 ppm
Zinc	555 ppm
Manganese	100 ppm
Boron	60 ppm
Molybdenum	10 ppm
Filtration	100 mic

### Product size

5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Quick Grow



## fast acting high nitrogen liquid fertilizer

**Quick Grow** is designed for foliar application on crops where there is a nitrogen deficiency. It provides nitrogen which is readily absorbed by the foliage in a form which can be readily assimilated. Nitrogen deficiencies are one of the major causes of stunted growth and poor yields.

**Quick Grow** does not contain significant amounts of amino acids but it is high in nitrogen and the nitrogen can be used to synthesise amino acids by the plant. Amino acids are the building blocks of proteins including enzymes.



**Quick Grow** also contains liquid seaweed, a nitrogen stabilizer and a very small amount of potassium. These additives are designed to reduce the release of the nitrogen to the air and help absorption into the plant cells. The seaweed component increases the uptake of phosphorus and trace elements by stimulating the soil microbes in the rhizosphere (the soil in the root zone). **Quick Grow** may be used on crops but is designed for foliar application rather than soil application. It is estimated that each application of **Quick Grow** increases the plant nitrogen by about 4 kg/ha.

### Pasture

**Quick Grow** is useful when feed is short in the summer. Applications of **Quick Grow** will give the pasture a significant growth boost. In a dairy farming rotation scheme it should be applied as soon as possible after the cows are moved to allow maximum growth before the cows return. Keep animals off for at least 48 hrs after application to allow **Quick Grow** to be absorbed into the foliage.

### Other crops

**Quick Grow** is designed to be applied to nitrogen deficient crops during the vegetative stages of growth but not during fruit or flower production stages. It should not be used if the soil is water logged or on frost sensitive crops if there is a possibility of frost occurring.

### Application Rates

Mix 1 part **Quick Grow** with at least 15 parts water.

DO NOT apply if temperature is over 23 degrees C. Apply late in the afternoon or early evening.

### Pasture - Dairy Rotation System

Apply up to 15 ltrs of **Quick Grow** per hectare in low growth periods.

To get maximum pasture growth apply as soon as practicable after grazing stock have been removed.

**Quick Grow** may be reapplied after 4 weeks.

### Pasture - Beef or Sheep

Apply up to 15 L/ha in low growth periods if soil moisture low.

Up to 25 ltrs of **Quick Grow** may be applied if soil moisture is high and rain is expected within a few days. May be tank mixed with **Premium** or **Spurt** liquid seaweed.

Add water and **Quick Grow** to the tank, then add **Premium** or **Spurt**.

Store out of direct sunlight.

### Broad Acre Crops

Apply up to 15 L/ha when a nitrogen boost is needed.

Do not apply within 3 weeks of expected flowering or if frost is likely.

### Product size

20ltr - 200ltr - 1000ltr

	Analysis
Nitrogen	22 %
Potassium	0.3 %
Sulphur	0.1 %
Filtration	100 mic

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Roses



## balanced nutrition with added trace elements

Fair Dinkum **Roses** has been specially formulated to give balanced nutrition for roses. It contains seaweed extract, added macronutrients (NPK), potassium humate and a range of micronutrients (trace elements).

The seaweed extract component is made from fresh Bull Kelp (*Durvillaea potatorum*) collected from the rugged North West coast of Tasmania. It is digested using a warm hydrolysis process specially developed for fresh bull kelp. The process maximizes the extraction of plant growth regulators. The extract has been extensively tested in both laboratory and in the field. It contains a number of plant growth regulators (or hormones) including auxins, cytokinins and betaines.

It also contains a number of sugars and phenolics. These compounds are stable in the product and lead to increase chlorophyll production, increased root development, increased tolerance of environmental stress caused by drought, frost, insect attack and salinity and increased uptake of "locked-up" nutrients.

The trace elements are in a form that are available to plants and do not get locked up in the soil. The iron is "molecularly wrapped" and as such is available even in alkaline soils (and is superior to iron EDTA in this respect).

The product is low in phosphate but high in potassium with enough nitrogen to promote moderate but healthy growth. The high level of potassium and trace elements ensure good flowering and the seaweed component enhances the longevity of the flowers, including after being cut. Whilst primarily formulated for roses, Fair Dinkum **Roses** can be used on most flowering plants, but is not recommended for natives.

**Roses** is a complete fertiliser but can be supplemented in late winter or early spring by one or two treatments with Fair Dinkum **Fish Emulsion** or animal manure.

### Application Rates

Apply as a soil treatment.

Can be applied to foliage but may stain light coloured blooms

### Established Roses

Add 40 mL of product to 9 L water.

Apply with watering can. Apply throughout the growing season every two weeks.

### Freshly Planted Roses

Use Fair Dinkum **All Purpose, (Gold)**, at planting out.

Allow roses to become established before treating with Fair Dinkum for **Roses**.



	Analysis
Nitrogen	3.2 %
Phosphorus	1.8 %
Potassium	6.6 %
Boron	60 ppm
Copper	150 ppm
Iron	205 ppm
Magnesium	580 ppm
Manganese	105 ppm
Zinc	45 ppm
Filtration	100 mic

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Spurt



## added NPK & trace element blend

Fair Dinkum Fertilizers **Spurt** is a fortified liquid seaweed designed to give pasture and crops a growth spurt by combining the plant growth regulators from seaweed with added nutrients. Crops and pasture often go through periods of low growth because of environmental stress such as drought and prolonged periods of high or low temperatures. **Spurt** is formulated to work under such situations.



**Spurt** should not be used if frost is a possibility but can be used when there are low non freezing temperatures.

**Spurt** works well if there is adequate soil moisture after a period of drought but should not be used if the soil is dry. It is similar to **Premium** but contains more available nitrogen.

Results should usually be visible after 2 weeks.

**Spurt** is made by a three stage process. The first stage is an alkaline hydrolysis, the second stage components which give "gluginess" are removed, and the third stage is where the nutrients are then added. It consistently out performs single stage products and two stage products when used on their own.

**Spurt** contains a number of plant growth regulators, simple and complex sugars including mannitol, amino acids and trace elements including iodine, selenium and potassium. It also contains the added nutrients listed below in the analysis.

### Application Rates

#### Pasture, Lucerne & Fodder Crops

Apply whenever the crop needs a short term boost at 5-7 L/ha.

Dilute at least 1 part product to 10 parts water, or preferably 1:25 or 1:50.

However the product should not be used more than four times a year on pasture unless more than two cuts of hay or silage are taken.

#### Vegetables

**Spurt** may be used on leafy vegetables, but use on young seedlings should be avoided.

	Analysis
Nitrogen	10.0 %
Phosphorus	0.3 %
Potassium	4.8 %
Sulphur	6000 ppm
Copper	300 ppm
Zinc	300 ppm
Manganese	100 ppm
Boron	60 ppm
Molybdenum	10 ppm
Filtration	100 mic

### Product size

20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Superfine



## acidic liquid seaweed concentrate

**Superfine** liquid seaweed is a highly effective foliar spray. It increases root development, particularly if applied in the early stages of growth, and delays senescence, (dying off), if applied late in the growing season.

Most liquid seaweeds are made by alkaline hydrolysis and the alginate is only partially broken down in the product. Over a period of time these products tend to "thicken up", and when exposed to the air, tend to form a light unstable skin on the surface. This skin can usually be removed by merely agitating the container, however when used in fine dripper situations the skin can, over a period of time, block the dripper.

There are several factors which contribute to the blocking of drippers. In some cases, liquid seaweed products contain particles which are too big to pass through the dripper, however even if the particle sizes are too small to block a dripper, a blockage problem may still exist because particles stick together. Evaporation from the droplet and changes that occur upon exposure to the air appear to be the major factors. This problem is less likely to be serious if the seaweed breakdown process is more extreme, but the harsh conditions used in such processes often lead to other less desirable effects in the final product.

Fair Dinkum Fertilizers have developed a mild process which gives a slightly acidic product called **Superfine**. **Superfine** does not suffer from thickening over time and skin formation is minimal even when exposed to air. **Superfine** liquid seaweed is extremely unlikely to cause any blockage of dripper systems.

**Superfine** is an acidic based product, therefore it can be mixed with **Fish Emulsion** and Molasses. It is also possible to mix with metal sulphates, and metal nitrates to address trace element deficiencies.

**Superfine** is slightly acidic, it may cause some corrosion and tarnishing in metal systems. It is recommended that the product should only be used in plastic based systems, or if used in metal and left in containers for extended time, they should be thoroughly washed out after use. **Superfine** should always be diluted at least 1:20 with water, and the pH of the water should be between 5 and 9. In crops grown in low fertility soil, it may be preferable to use **Premium** or **Spurt**.

### Application Rates

#### Pasture

Use between 5-7 L/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 L/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.



Analysis	
Potassium Sulphur	3.5 % 0.9 %
Filtration	100 mic

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Tomatoes



## high potassium & trace element blend

Fair Dinkum liquid seaweed for **Tomatoes** is a blend of organic liquid seaweed and added nutrients. Seaweed extract on its own is not a complete fertilizer so macro and micro nutrients have been added at an appropriate level.

Our **Tomatoes** blend has been specifically formulated with a high level of potassium to enhance fruit set and development. If grown in a reasonably fertile soil no other fertilizer treatment will be needed but if grown in a low nutrient potting mix it is suggested that a small amount of lime may be beneficial to enhance skin texture.



Compared with traditional tomato fertilizers Fair Dinkum Liquid Seaweed for **Tomatoes** will give better availability of both macro and micro nutrients and less build up of salts in the growing medium.

The seaweed extract component is made from fresh Bull Kelp, (*Durvillea potatorum*), collected from the rugged North West coast of Tasmania. It is manufactured using a warm hydrolysis process specially developed for fresh bull kelp. The process maximizes the extraction of plant growth regulators. The extract has been extensively tested in both laboratory and in the field. It contains a number of plant growth regulators, (or hormones), including auxins, cytokinins and betaines.

**Tomatoes** also contains a number of sugars and phenolics. These compounds are stable in the product and lead to increase chlorophyll production, increased root development, increased tolerance of environmental stress caused by drought, frost, insect attack and salinity and increased uptake of "locked-up" nutrients.

The product is suitable for both plants in pots or in the soil but should not be used for two weeks after planting out until seedlings are established.

### Application Rates

#### Established seedlings

Add 20 ml of product to 9 ltrs of water.  
Apply with a watering can every week to ten days

#### Established plants

Add 30 ml of product to 9 ltrs of water.  
Apply every ten to fourteen days.

May be applied as a soil drench or a foliar feed.

	Analysis
Nitrogen	4.0 %
Phosphorus	1.5 %
Potassium	7.1 %
Copper	180 ppm
Zinc	60 ppm
Manganese	155 ppm
Boron	90 ppm
Iron	420 ppm
Magnesium	1100 ppm
Filtration	100 mic

### Product size

1ltr - 5ltr - 10ltr - 20ltr - 200ltr - 1000ltr

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

# Dried Seaweed



## granulated nutritional supplement

Fair Dinkum Fertilizers Seaweed **Granules** and **Meal** are made from Australian bull kelp (*Durvillaea potatorum*) collected from the North West Coast of Tasmania. It grows in some of the cleanest seawater in the world and is naturally low in heavy metals. The Kelp is sustainably harvested under licence, from the beach where it is naturally washed up following storms. The kelp is dried and milled to produce either granules or meal. It contains no additives or preservatives and does not undergo any further processing.

### Seaweed Granules

**Granules** are usually applied to the soil. When applied to the soil, the kelp rehydrates, swelling significantly to typically five times in size. Wet kelp will start to decompose through microbial action, releasing nutrients and plant growth regulators. The mineral elements in **Granules** provide direct fertilizer benefits to the plant. The protein and carbohydrates are important bio-stimulants for the soil microbes as well as providing indirect nutritional value to the plants. The kelp contains a range of plant growth regulators including auxins, betaines, and cytokinins and sterols and polyphenols. The plant growth regulators induce root growth, cell division and chlorophyll production.

### Seaweed Meal

Dried seaweed **Meal**, used as a nutritional supplement for stock, is the same product as **Granules**, but is milled to under 2mm in size so that it may be consumed by animals. It contains a large number of compounds which are beneficial for animal health, including a range of trace elements in a form that can be absorbed in the mammalian gut. It is arguably the best natural source of iodine, which is severely deficient in almost all Australian pasture. It also contains small but important amounts of selenium, copper, zinc and magnesium. Australian bull kelp, unlike some imported seaweeds, is low in heavy metals. It is also relatively high in osmoregulatory compounds which stimulate the gut bacteria leading to improved feed utilization. It also contains a range of antioxidants and plant sterols which improve animal health. Some of the benefits that farmers have commented on include;

- Increased fertility
- Increase in the general level of health
- Reduction in afterbirth retention
- Reduced worm burden
- Improvement in coat smoothness and shine.

Kelp **Meal** should be fed at a rate of about 5 grams per 100 kg of body weight. Occasionally stock may initially be reluctant to feed on **Meal** but generally this can be overcome by adding a very small amount of molasses.

Stock previously fed *Ascophyllum*, (a common Canadian, Irish or Norwegian seaweed), may take a few days to adapt to the richer Australian bull kelp.

Horses should not be fed more than 25-30 grams per day.

If excess **Meal** is consumed the faeces may become watery.



Approved Organic Input

	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
Molybdenum	0.13 ppm
Alginic acids	28 %
Lamiarin	1.6 %
Mannitol	2.9 %
Proteins	10 %

%W/V is grams per 100ml of product  
ppm is parts per million on weight basis  
g/l is grams per litre  
mic = microns

### Product size

1kg - 3kg - 25kg - 1000kg

# ERADICATE SNAIL & SLUG KILLER

## *Advantages of ERADICATE...*

- Active ingredient is allowable food additive
- Application rate between 5 kg/ha (light infestation) to 15 kg/ha (heavy infestation – over 200 snails per m<sup>2</sup>).
- Provides over 40% more baiting points than Multiguard
- Non-toxic to pets, native fauna and other animals if used as directed.
- Rain fast
- Active ingredient slowly degrades in moist pellets over several weeks compared to metaldehyde which degrades rapidly
- In over 80 trials Eradicate out performed Australian made metaldehyde pellets
- In typical Australian conditions out performs methiocarb (blue) pellets
- Active ingredient does not accumulate in the environment.
- Unlike metaldehyde can be used up to harvest- no withholding period.
- Unlike metaldehyde can be used near waterways.
- Unlike metaldehyde does not pose a threat to surface or drinking water.
- Effective on juvenile snails.
- Contains child taste deterrent (as required by APVMA).
- Manufactured by a modified “dry” process.
- Patented technology developed by Australian scientists.
- Product designed for Australian conditions.
- Uses “molecular wrap” technology.
- Eradicate kills woodlice
- After eating Eradicate Snail and slugs stop feeding but do not die immediately. They move away from the bait, so there is no crowding, and die sometime later.
- Eradicate is believed to work by replacing the copper in the oxygen carrier with iron making it ineffective. The mollusk dies of suffocation.

*...kills snails & slugs dead!*

[www.eradicatesnails.com.au](http://www.eradicatesnails.com.au)



### Product size

600g - 1kg - 25kg - 500kg - 1000kg

ABN: 21 660 932 121  
4 Glenbarry Rd Campbellfield Vic 3061  
T: (03) 9357 5488  
F: (03) 9357 5388  
[info@eradicatesnails.com.au](mailto:info@eradicatesnails.com.au)



# Notes

# Notes





*Fair Dinkum Fertilizers*

ACN 67 101 645 756

4 Glenbarry Rd  
Campbellfield Vic 3061  
P: (03) 9357 5488

*get fair dinkum...grow naturally!*

[www.fairdinkumfertilizers.com](http://www.fairdinkumfertilizers.com)

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