

# Organica

*Agriculture & Horticulture*



*Remarkable products from Nature's own laboratory*



# Organica®

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## AQUACULTURE MSP

### *Active Ingredients*

Selectively cultured micro organisms for organic pollutant degradation and ammonia reduction in aquaculture applications

### **Description**

**Organica's Aqua Culture MSP** is a microbial formulation specifically developed for the reduction of organic pollutants (BOD) and the conversion of ammonia to nitrates. In the past this combination has not been available in one formulation as the micro organisms used Nitrosomonas and Nitrobacter were not as capable of the synergistic degradation now achievable.

Now Organica has developed a product that does not use the Nitrosomonas or Nitrobacter strains for the denitrification and nitrification process, but has identified a new metabolic process that uses spore-forming soil based microbes. This process is far more efficient and will tolerate greater margins of operational variation like oxygen levels, temperature and pH.

### **Advantages**

- Reduced Mortality Rate
- Improved Growth Rate
- Improved Flavour
- Reduces Organic Sediments
- Improves Water Clarity
- Eliminates Malodour





## Suggested Application

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### For application of dry product directly to compost area:

- For first application 3 to 5 Kg of product to 2,000 cubic meter pond depending on sediment levels and water quality.
- For subsequent applications 3 Kg every second day.

### Specific Directions For Use

In shrimp, prawn or fish farms there is a general fry application rate of 100,000 fry to the acre or 220,000 per hectare. For a pond that has this level of stocking, that is 5000 square metres and on the assumption that the pond or lagoon has been adequately prepared. That it has the ability to maintain oxygen levels above 3mg/Litre and has no external contamination source and is not deeper than 1.5 metre then we would recommend the following dosing regime.

## Storage and Disposal

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- Shelf Life: dry - 2 years
- Keep container tightly closed
- Store in original container
- Store in a cool dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Caution

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- **IN EYES.** Moderately irritating to the eyes. Eye protection should be worn while working with Organica's Compost Activator.
- **ON SKIN.** Dermal exposure may cause mild irritation of skin. Avoid contact.
- **ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.**
- Wash hands thoroughly after using.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field condition may vary and therefore no warranty or performance guarantee should be implied from such information.

**For more information on *Aquaculture MSP*,  
Call: 0151-653 0253 Fax: 0151-653 0353**

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## COMPOST ACTIVATOR

### *Active Ingredients*

Proprietary blend of naturally occurring microbes, enzymes, nutrients and growth stimulants

### **Description**

*Organica's Compost Activator* uses the powerful waste digesting properties of proprietary selected natural microbes to speed up the composting process. Our formulation accelerates the breakdown processes for complete digestion to a shorter period of time. It has been clearly demonstrated that with appropriate use of our activator it generates high heat (temperatures up to 60-75°C). This high heat inactivates weed seeds, human and animal pathogens, and viruses and accelerates degradation of cellulose and lignin from plant materials. The accelerated process prevents foul odours and creates nutrient rich humus in the shortest possible time.

### **Advantages**

- Contains both thermophilic and mesophilic bacteria
- Increases processing efficiency
- Effective under a variety of pH and temperature conditions
- Inactivates weeds and many other germs
- Reduces foul odours





## Suggested Application

### For application of dry product directly to compost area:

- For first application use 500g. of product to 2 cubic metres of organic matter
- Apply liberally when initially preparing compost pile then water thoroughly
- Mix woodchips with very fine waste to increase aeration
- Reapply during turning time one week later using 500-250g. of product to 2 cubic metres
- Most effective when soil temperatures range 10-40°C

### For application of liquid product directly to compost area:

- In small areas dilute concentrate at a rate of 1 litres of product to 20 litres of water
- Apply 5 litre of mix to 1 cubic metre organic matter using 5-25 litre hand spray tank
- In large areas dilute concentrate at a rate of 2 litres of product to 40 litres of water
- Apply to 40 cubic metres or more using a large capacity spray tank with orchid gun
- Reapply during turning time one week later
- Most effective when soil temperatures range 10- 40°C

## Storage and Disposal

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- Shelf Life: dry - 2 years, liquid - 12 months
  - Keep container tightly closed
  - Store in original container
  - Store in a cool dry place and avoid direct sunlight
  - Dispose in accordance with Federal, State, and Local regulations

## Caution

- 
- IN EYES. Moderately irritating to the eyes. Eye protection should be worn while working with Organica's Compost Activator.
  - ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
  - ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
  - Wash hands thoroughly after using.

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For more information on *Compost Activator*,  
Call: 0151-653 0253 Fax: 0151-653 0353

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## CROP PLUS

### Description

Designed for agriculture, Organica Crop Plus is a unique three in one product that conditions soil, improves plant growth and keeps plants healthy, thus increasing the yield of the crop.

*Soil Conditioner* – Organica Crop Plus contains natural microbes that condition the soil converting organic and inorganic matter into plant available forms thus producing a more nutritious soil.

*Plant Growth Stimulant* – The improved conditions produced by Organica Crop Plus enables it to work synergistically with the plant to naturally provide conditions to stimulate enhanced plant growth.

*Plant Tonic* – The microbes in Organica Crop Plus are able to outcompete soil borne plant pathogens for food thus reducing the incidence of plant disease, this in combination with improved soil conditions and enhanced plant growth results in stronger healthier plants.

### Active Ingredients

Selected thermophilic and mesophilic bacterial cultures.

### Physical Properties

Appearance	-	Tan Powder
Solubility	-	Water soluble
pH	-	7.0 - 7.5
Effective pH range	-	5.9 – 9.0
Effective temperature range	-	7.2 – 65°C
Stability	-	5 years

### Pack Sizes Available

500 g, 2 kg and 10 kg.





### Directions for Use

#### Preparation of working solution

1. Add half required amount of water to spray tank
2. Add the required amount of Organica Crop Plus
3. Mix well
4. Add remaining water to spray tank
5. Mix well
6. Agitate whilst spraying

#### Application rates

Crop	Application Rate	When to Apply
Apples, Top Fruit	10 g/litre 10 g/litre 10 g/litre	Before flowering During flowering During fruit development
Cereals	1 kg/ha 1 kg/ha	2 – 6 leaf stage 1 <sup>st</sup> node
Milling Wheat	1 kg/ha	3 weeks before harvest
Grassland	1 kg/ha 0.5 kg/ha 0.5 kg/ha	Early spring Early spring After cutting/grazing
Lettuce, Onions, Vegetables	1 kg/ha  1 kg/ha	1 week after emergence or transplanting 2 – 3 weeks later (3 applications recommended)
Maize	1 kg/ha	3 – 5 leaf stage
Pulses, Oilseed Rape	1 kg/ha	Start of spring growth
Potatoes (other than New Potatoes)	1 kg/ha 0.5 kg/ha	3 – 4 weeks after emergence 2 weeks later
New Potatoes	1 kg/ha	3 – 4 weeks after emergence
Sugar Beet	1 kg/ha	4 – 8 leaf stage
Transplanted crops	1 kg/ha	At transplanting
Greenhouse crops	100g/m <sup>2</sup>	At start of growth Repeat every 14 days
Seed treatments	5 g/litre 1kg/ha	Soak seeds 5mins prior to sowing. Immediately after sowing.

### Storage

Store in original container in cool dry place.

## Health and Safety

The bacteria used in Organica Crop Plus safe naturally occurring are organisms and are non-toxic. Organica Crop Plus does not contain any genetically modified organisms (GMO's) or their derivatives. Avoid eye contact. Do not ingest. Wash hands thoroughly after use. See Material Safety Data Sheet for full details.





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## HYDRO-BAC

### Active Ingredients

Proprietary blend of naturally occurring microbes, nutrients, and non-ionic solution

### Description

*Organica's Hydro-bac* is a unique formulation containing biodegradable organics with natural microbes. It was developed to bioremediate oil spills *more quickly and effectively* with no harmful effects to the operator or turf being treated. This product emulsifies the oil from the area and breaks it down into naturally occurring soil elements that become nutrients when reabsorbed.

### Advantages

- Highly effective petroleum emulsifier
- For use on all golf course areas
- Adds nutrients to soil as it breaks down the oil







## Suggested application rate

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### For use on golf course tees, greens, fairways, lawns, and sports turf for oil spills:

- Use 1 gallon of product to 250 square feet of area
- Mix a package of bacteria and a package of nutrient to 1 gallon of non-ionic solution
- Shake well before using
- Apply with a 1-5 gallons hand spray tank
- Apply 1-2 hours after spill following directions stated above
- Aerate and re-seed damaged area 7-10 days later
- *Reapply* at the same rate 4 days after seeding
- Most effective when soil temperatures range 40-100 degrees Fahrenheit

## Storage and Disposal

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- Shelf Life of product: 2 years
- Keep container tightly closed
- Store in original container
- Store in a cool dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Cautions

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- **IN EYES.** Moderately irritating to the eyes. Eye protection should be worn while working with Organica's Hydro-bac.
- **ON SKIN.** Dermal exposure may cause mild irritation of skin. Avoid contact.
- **ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.**
- Wash hands thoroughly after using.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field condition may vary and therefore no warranty or performance guarantee should be implied from such information.

For more information on *Hydro-bac*,  
Call (0)151 653 0253 or fax (0)151 653 0353

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## LAWN BOOSTER

FOR TURF AND LAWNS

### Active Ingredients

Natural plant based proteins, fortified with soil micro-organisms

### Description

*Organica's lawn booster* product, applied as directed, conditions treated soils to establish or restore the optimal conditions which support the growth of established turf, while discouraging conditions which support the germination and growth of weed seedlings.

This product may be applied to established turf at any time, but timed spring and fall applications of the plant based proteins and microorganisms in Organica's *lawn booster* granular formation, just prior to the major cool-season periods of weed germination (crabgrass, *Poa annua* and others), are particularly effective. Since the principle soil conditioning components of *lawn booster* are proteins, they also act as a natural source of slow-release nitrogen.

### Advantages

- Increases the growth and stability of the turf-plant system
- Decreases competition from germination weeds
- Ecologically sound source of slow-release nitrogen
- Environmentally safe applications with no re-entry restrictions following application.





## Suggested Application Rate

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### For use on golf course tee, greens and fairways:

An acre of land (43,650 ft) containing the tees, greens and fairways can be effectively treated with sixteen bags of *Lawn Booster* at full-rate. Re apply on an 8 to 10 week intervals or as needed to increase vitality, colour and lushness of the treated area

\* For other areas, use at the following rates:

#### Half-Rate

100 lbs. per 10,000 sq.ft.  
50 lbs. per 5,000 sq.ft.

#### Full-Rate

200 lbs. per 10,000 sq.ft.  
100 lbs. per 5,000 sq.ft.

The soil conditioning activities of *Lawn Booster* are enhanced when spring and fall applications are made just prior to major cool-season periods of weed germination.

#### In the Spring @ Full-Rate

Apply to coincide with the first flowering of forsythia or the end of the crocus blooming.

#### In the Fall @ Full-Rate

Apply following hot/dry midsummer stress periods, usually between end August to mid-September.

### For use on golf course roughs and other areas of sod or lawns:

\* Apply at Half-Rate

## Storage and Disposal

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- Do not contaminate food or feed by storage or disposal
- Shelf life of liquid formulation: 1 year
- Store in original container. Keep container tightly sealed.
- Store in a cool, dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations.

## Cautions

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- **IN EYES.** Flush with clean water for 15 minutes. *lawn booster* may be moderately irritating to eyes. Wear eye protection while working with this product.
- **ON SKIN.** Wash contact areas with soap and water. Dermal exposure to *lawn booster* may cause irritation of skin. Avoid contact.
- **ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.**
- Wash hands thoroughly after using.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field conditions may vary and therefore no warranty or performance guarantee should be implied from such information.

**For more information on *Lawn Booster*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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## MANURE COMPOSTER

### *Active Ingredients*

Proprietary blend of naturally occurring microbes, enzymes, nutrients and growth stimulants

### **Description**

*Organica's Manure Composter* is specifically formulated to convert manure into humus faster than normal processes. It is a unique blend of naturally occurring microbes that speed up the breakdown of manure, hay, straw and shavings. The microbes and enzymes breakdown residual proteins, fats and other macromolecular products from undigested food particles. It helps prevent foul odours, and quickly creates nutrient rich humus, which is an excellent soil additive on fields, gardens and flowerbeds. It has been clearly demonstrated that with appropriate use of our activator it generates high heat (temperatures up to 60-75°C). The high temperature destroys parasites, weed seeds, viruses and pathogens.

### **Advantages**

- Accelerates manure decomposition
- Destroys parasites and weed seeds
- Non-toxic and 100% biodegradable
- Rapidly breaks down undigested food particles





## Suggested Application

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### For application of dry product directly to compost area:

- For first application use 500g. of product to 2 cubic metres of organic matter
- Apply liberally when initially preparing compost pile
- Place a small of product to assist in decomposition process
- As fresh manure is added to the pile, add approx. 100g
- Under normal conditions manure piles are decomposed in 4-6 weeks or slightly longer in extreme cold conditions
- TIP-Keep at least three piles and rotate their use. This will assist in the composting process.

### For application of liquid product:

- In small areas dilute concentrate at a rate of 1 litres of product to 20 litres of water
- Apply 5 litre of mix to 1 cubic metre organic matter using 5-25 litre hand spray tank
- In large areas dilute concentrate at a rate of 2 litres of product to 40 litres of water
- Apply to 40 cubic metres or more using a large capacity spray tank with orchid gun

## Storage and Disposal

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- Shelf Life: dry - 2 years, liquid - 3 months
- Keep container tightly closed
- Store in original container
- Store in a cool dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Caution

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- IN EYES. Moderately irritating to the eyes. Eye protection should be worn while working with Organica's Compost Activator.
- ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
- Wash hands thoroughly after using.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field condition may vary and therefore no warranty or performance guarantee should be implied from such information.

**For more information on *Manure Composter*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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## MARINE-GRO

4-1.5-1.5

**AN ORGANIC FERTILIZER AND BIOSTIMULANT DESIGNED TO  
IMPROVE PLANT HEALTH**

### Active Ingredients

A unique formulation consisting of an organic source of nitrogen, phosphorous, potassium, natural plant growth hormones, micronutrients, amino acids, and vitamins.

### *Description*

*Organica's Marine-Gro* is a combination product containing an organic fertiliser (fish emulsion) and a natural biostimulant (kelp) both proven environmentally friendly growth components. Fish emulsion provides an organic source of nitrogen, phosphorus and potassium. The kelp portion is manufactured by a patented "cell burst" process providing high concentrations of natural plant growth hormones (auxins & cytokinins) micronutrients, amino acids, and vitamins. Plant growth hormones provide plants with the ability to increase their resistance to environmental stress factors such as heat, drought, and disease. The kelp allows plants to efficiently absorb and utilise the nutrients (N, P, K) contained in the fish emulsion. The components of this product function synergistically naturally stimulating healthy plant growth, larger root systems, lateral bud development, and improve colour.

### Advantages

- Effective use of NPK fertilisers
- Effective under a wide range of conditions.
- Slow release growth, no surges.
- Contains broad spectrum of nutrients
- Reduces stress and enhances root growth
- Safe to use, environmentally friendly
- Active ingredients function synergistically.





## Suggested Application Rate:

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### Ornamentals:

- For larger areas such as nurseries, apply using a hose end applicator or diluted in water. Apply at the rate of 4 oz. (8 tablespoons) per 100m<sup>2</sup> using the appropriate amount of water.

### New Seedlings:

- Apply 3-6 oz diluted in appropriate amount of water for 100m<sup>2</sup> when germination begins then continue on regular program.

### For general applications:

- Mix 2 tablespoons in 1 gallon of water.
- Apply to soil and foliage on a monthly basis throughout the growing season.

**For best results use in conjunction with Organica's Plant Growth Activator.**

**SIZES AVAILABLE: 0.5L, 10L AND 25L**

## Storage and Disposal

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- Shelf life of liquid: 2 years.
- Store in original container.
- Store in a cool dry place and avoid direct sunlight.
- Dispose in accordance with Federal, State, and Local regulations.

## Cautions

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- **EYES:** Moderately irritating to the eyes. Avoid contact.
- **SKIN:** Dermal exposure may cause mild irritation of skin. Avoid contact.
- **ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.**
- Wash hands thoroughly after using.
- It is the responsibility of the customer to take appropriate precautions.

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**For more information on *Marine-Gro*,  
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## MICROBIAL SOIL CONDITIONER

**A UNIQUE MICROBIAL INOCULANT DESIGNED TO ENHANCE SOIL BIOLOGY AND IMPROVE PLANT HEALTH**

### Active Ingredients

A proprietary formulation consisting of 47 strains of beneficial soils microbes, fulvic acid, essential amino acids, vitamins, and sugars.

### Description

*Organica's Microbial Soil Conditioner* is a beneficial microbial inoculant formulated to enhance soil biology and improve plant health. This unique granular formulation establishes colonies of beneficial soil microbes, which create the ideal environment and soil conditioners required for healthy plant growth. Specifically, the microbes will minimise nutrient leaching, aid in nutrient recycling and absorption, improve soil structure, convert soil elements into plant available form and suppress disease and pathogenic activity. The other natural ingredients in *Microbial Soil Conditioner* will stimulate root growth and formation, improve nutrient absorption, improve seed germination and viability, naturally accelerate cell division and provide energy for plant metabolism. What you get is a comprehensive plant growth system born from "Nature's Own Laboratory".

### Advantages

- Safe to use around children and pets.
- Easy to use granular formulation.
- Ideal for both lawns and ornamentals.
- Improves soil biology and plant health.







## Suggested Application Rate

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### For Turf applications:

- Apply 20 lbs. (10Kg) of granular product per 5,000 square feet (500m<sup>2</sup>) of turf area.
- Apply once in spring and once in summer.
- Apply when daytime temperatures reach 10°C.
- Product should be watered in well
- When used as part of Organica's 4 Step All Natural Lawn Program, apply in the summer.

### ORGANICAS ALL NATURAL 4 STEP PROGRAM

1. **Early Spring-Lawn Booster**
2. **Late Spring-Kelp Booster**
3. **Summer-Microbial Soil Conditioner**
4. **Autumn-Lawn Booster**

### Ornamental Use:

- Apply 1 cup of granular product per foot of shrub height.
- Apply every 4 weeks around plant "drip line" throughout growing season.
- Product should be watered in well.

SIZE AVAILABLE: 20 lb (9Kg) and 40 lb (18Kg) Bags

## Storage and Disposal

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- Do not contaminate food or feed by storage or disposal
- Shelf life: 2 years.
- Store in original container.
- Store in original bag. Keep bag tightly sealed.
- Store in a cool dry place and avoid direct sunlight.
- Dispose in accordance with Federal, State, and Local regulations.

## Cautions

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- **EYES:** Moderately irritating to the eyes. Wear eye protection. If eye contact, flush with cool water for 15 minutes. If irritation persists, seek medical help.
- **SKIN:** Dermal exposure may cause mild irritation of skin. Avoid contact.
- **ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.**
- Wash hands thoroughly after using.

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**For more information on *Microbial Soil Conditioner*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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## N-P FIX

Reduces leachate of Nitrogen and Phosphorous from Soil

### Active Ingredients

Proprietary blend of various species of genus *Bacillus*, *Streptomyces*, various beneficial *Pseudomonas* and contains fermentation-derived phosphorous-solubilizing bacteria, nitrogen-fixing bacteria.

### Description

Organica's Natural N-P Fix is a specific blend of beneficial bacteria formulated to reduce the leaching of nutrients such as nitrate and phosphate from the soil into water courses. It is the inorganic forms of nitrogen and phosphorous that leach into water courses and cause the contamination of the water bodies making it difficult for aquatic species to survive. Organica's N-P Fix works by converting the inorganic forms of nitrogen and phosphorous into organic forms and hence making it impossible to leach. Studies have shown that up to 70% of the N and P can leach out of the soil. Using Organica's N-P Fix, this is significantly reduced.

### Advantages

- Converts N and P into organic forms
- Reduces leaching of nitrate and phosphate
- N and P is converted into a plant available form
- Reduces fertiliser consumption





## SUGGESTED APPLICATION RATE:

Soil drench: Mix 5 litres of N-P Fix into a suitable volume of water to cover one acre. Apply with a wetting agent if required. For best results do not apply in direct sunlight, apply at the beginning or end of the day.

## TRIAL RESULTS ON REDUCTION OF LEACHING

Level of Leaching	N	P
at 30cm	55%	42%
at 90cm	86%	78%

Results are compared to soil with no treatment of N-P Fix

### Storage and Disposal

- Shelf life of liquid 2 years
- Keep container tightly sealed
- Store in original container
- Store in a cool, dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

### Cautions

- Do not eat or drink this product.
- IN EYES. Moderately irritating to the eyes. Eye protection should be worn.
- ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
- Wash hands thoroughly after using.

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**For more information on N-P Fix  
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## NATURAL DETHATCHER

### *Active Ingredients*

Proprietary blend of naturally occurring microbes, enzymes, nutrients and growth stimulants

### **Description**

Thatch creates a number of problems in heavily cultivated turf. When turf grass must be kept both closely mowed and heavily fertilised, thatch rapidly accumulates. The thatch layer, formed by clippings and dead plant material on the soil surface, is an ideal environment for pathogens and pests such as fungi and insects. Additionally, thatch tends to repel water, leading to hydrophobic soil conditions, which in turn adds stress and leads to additional maintenance requirements.

Used in combination with your verticutting, aeration, top-dressing and dethatching program, Organica Natural Dethatcher accelerates natural thatch decomposition to help reduce the frequency of mechanical treatments. This combination program helps improve soil and turf conditions, and can reduce the long-term need for pesticide applications.

Organica Natural Dethatcher contains an advanced formulation of naturally occurring microbes that "feed" on dead plant tissue. Like any other that "feed" on dead plant tissue. Like any other population, they multiply when there is abundant food. By adding the concentrated microbes in Organica Natural Dethatcher, you help nature "keep up" with the rapid accumulation of dead plant material.

### **Advantages**

- Treats and controls thatch layer in turf
- Helps minimise thatch-related turf maintenance problems
- Helps reduce the need for mechanical dethatching and chemical use
- Effective in a wide range of conditions





## Suggested Application

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### For application of dry product directly to compost area:

For use on golf course tees, greens, fairways:

- Wettable Powder: 1.8Kg /Hectare
- For use on golf course roughs and sod areas, reduce rates 50%.
- Dissolve product in 0.9Kg in 300litres of water and spray over 5,000M<sup>2</sup>.
- Reapply every 14 days as needed to decrease thatch.
- Product is most effective when soil temperature ranges from 10<sup>0</sup> to 50<sup>0</sup> C.

## Storage and Disposal

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- Shelf Life: dry - 2 years, liquid - 3 months
- Keep container tightly closed
- Store in original container
- Store in a cool dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Caution

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- IN EYES. Moderately irritating to the eyes. Eye protection should be worn while working with Organica's Compost Activator.
- ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
- Wash hands thoroughly after using.

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**For more information on *Natural Dethatcher*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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## PLANT GROWTH ACTIVATOR



**Encourage healthy growth of plants, cuttings and plugs**

### Active Ingredients

Proprietary blend of various species of genus *Bacillus*, *Streptomyces*, and various beneficial *Pseudomonas*, at concentrations of  $5 \times 10^{12}$  CFU per Kilo. Also contains fermentation-derived phosphorous-solubilizing bacteria, nitrogen-fixing bacteria, cytokinin-producing bacteria, essential amino acids, vitamins B, B2, B3, B6, B12, C, K, biotin, folic acid, and natural sugars.

### Description

PLANT GROWTH ACTIVATOR can be used on all ornamental plants from the plug or cutting stage. It will help develop root growth, foliar and flower population resulting in a bright healthy looking plant. The accelerated development of roots assists in the establishment of plants during the crucial periods. Regular use will help the plant resist disease and survive in extreme conditions. The product is water soluble and applied as a foliar or soil/compost drench. For best results, use in conjunction with Organica's kelp based fertiliser, Marine-Gro. By applying Plant Growth Activator you are establishing new colonies of beneficial soil microbes that pre-emptively consume the food source of such damaging fungi as *Pythium*, *Rhizoctonia*, and *Fusarium*. The beneficial microbes in Organica PLANT GROWTH ACTIVATOR require organic matter, oxygen, moisture, and soil temperature from 10° to 50°C (40° to 105° F) for optimum performance. In these conditions, Organica PLANT GROWTH ACTIVATOR provides specific benefits for soil and plants that can help reduce the need for pesticide applications.

### Advantages

#### IMPROVES SOIL BIOLOGY

- Promotes conversion of soil elements, including phosphorous, into plant available forms
- Helps decompose soil organics
- Increases soil buffering properties
- Chelates metal ions in alkaline conditions, increasing plant availability

#### PROMOTES PLANT HEALTH

- Stimulates plant growth by naturally accelerating cell division. Increases plant membrane permeability for more efficient nutrient uptake
- Stimulates root growth
- Increases root respiration and formation
- Stimulates the presence of desirable soil micro-organisms
- Stimulates plant enzymes





## INDEPENDENT TRIAL RESULTS

Plant Species	Control	Treated	Scoring range
Felicia	2.4	2.8	1 - 4
Lavender 'Munstead'	3.8	4.2	1 - 5
Pyracantha Red Column	1.6	1.8	1 - 3
Begonia	1.4	1.5	1 - 2

PLANT GROWTH ACTIVATOR applied as a weekly drench. Trial lasted 8 weeks. Growing medium standard compost mix 2.5kg/m controlled release fertiliser. The scoring was based on general appearance of health and root development. All plants rooted from plugs

## ROOT DEVELOPMENT TRIALS FROM CUTTINGS

Plant Species	Control		Treated		Comments
	% Score 5	%Score 1	% Score 5	%Score 1	
Rosemary	45	15	62.5	7.5	Peat-free substrate
Lavender	60	2.5	77.5	2.5	Peat-free
	86	4	97.5	0	Peat based

The % refers to the number of plants given grade 5 (best) or 1 (worst)

## SUGGESTED APPLICATION RATE:

**Dilution:** 2 tablespoons (30 grams) PLANT GROWTH ACTIVATOR in sufficient water to cover 100m<sup>2</sup> area (10mx10m); eg 30litres. Stir well. Use within 6 hours.

### Plugs

Initial application - spray after transfer of plugs to pots.  
Subsequent application - repeat every week.

### Cuttings

Rooted - apply as for plugs.  
Non-rooted –  
Initial application - apply 7 and 14 days after planting at a rate of 1 tablespoon per 100m<sup>2</sup>.  
Subsequent - apply weekly at a rate of 2 tablespoons per 100m<sup>2</sup>.

### Established Plants/Cut Flowers

Apply weekly at rate of 2 tablespoons in 100m<sup>2</sup>.

**For best results, use in conjunction with Organica's kelp based fertiliser, Marine-Gro.**

## Storage and Disposal

- Shelf life of powder 5 years
- Keep container tightly sealed
- Store in original container
- Store in a cool, dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Cautions

- Do not eat or drink this product.
- IN EYES. Moderately irritating to the eyes. Eye protection should be worn.
- ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
- Wash hands thoroughly after using.
- It is the responsibility of the customer to take appropriate precautions.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field conditions may vary and therefore no warranty or performance guarantee should be implied from such information.

**For more information on Plant Growth Activator**  
Call 0151-653 0253 or fax 0151-653 0353

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# Organica®

Remarkable products from Nature's own laboratory

## PLANT PLUS

### Description

Designed for horticulture, Organica Plant Plus is a unique three in one product that conditions soil, improves plant growth and keeps plants healthy producing a more plants that your customers will want to buy.

*Soil Conditioner* – Organica Plant Plus contains natural microbes that condition the soil converting organic and inorganic matter into plant available forms thus producing a more nutritious soil.

*Plant Growth Stimulant* – The improved conditions produced by Organica Plant Plus enables it to work synergistically with the plant to naturally provide conditions to stimulate enhanced plant growth.

*Plant Tonic* – The microbes in Organica Plant Plus are able to out-compete soil borne plant pathogens for food thus reducing the incidence of plant disease, this in combination with improved soil conditions and enhanced plant growth results in stronger healthier plants.

### Active Ingredients

Selected thermophilic and mesophilic bacterial cultures.

### Physical Properties

Appearance	-	Tan Powder
Solubility	-	Water soluble
pH	-	7.0 - 7.5
Effective pH range	-	5.9 – 9.0
Effective temperature range	-	7.2 – 65°C
Stability	-	5 years

### Pack Sizes Available

500 g, 2 kg and 10 kg.







## Directions for Use

### Preparation of working solution

7. Add half required amount of water to spray tank
8. Add the required amount of Organica Plant Plus
9. Mix well
10. Add remaining water to spray tank
11. Mix well
12. Agitate whilst spraying

### Application rates

Crop	Application Rate	When to Apply
Ornamental Trees, Fruit trees, Conifers, Shrubs	20g/100m <sup>2</sup>	Repeat every 14 days.
Flowers, annuals and perennials	30g/100m <sup>2</sup>	Repeat every 14 days
Lettuce, Onions, Vegetables	1 kg/ha 1 kg/ha	1 week after emergence or transplanting 2 – 3 weeks later (3 applications recommended)
Transplanted cutting, potted on plants	100g/m <sup>3</sup>	At transplanting or potting mixed with compost.
Greenhouse plants	30g/m <sup>3</sup>	At start of growth Repeat every 14 days
Seed treatments	25 g/m <sup>3</sup> 5 g/litre	Mix with compost for container grown crops Soak seeds 5mins prior to sowing.
Hydroponics	5g/litre	Replenish every 4 weeks

## Storage

Store in original container in cool dry place.

## Health and Safety

The bacteria used in Organica Plant Plus safe naturally occurring are organisms and are non-toxic. Organica Plant Plus does not contain any genetically modified organisms (GMO's) or their derivatives. Avoid eye contact. Do not ingest. Wash hands thoroughly after use. See Material Safety Data Sheet for full details.

For more information on *Plant Plus*,  
Call (0)151 653 0253 or fax (0)151 653 0353

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# Organica®

Remarkable Products from Nature's own laboratory

## POND CLARIFIER

*The natural way to establish and maintain cleaner pond and lake water without chemicals*

- ◆ Improves water clarity
- ◆ Eliminates pond scum and algae
- ◆ Helps eliminate foul odours
- ◆ Digests excess organic matter in ponds, lakes, fountains

### **WHEN WATER ECOLOGY IS HEALTHY, YOU SEE NATURALLY BEAUTIFUL, CLEAR WATER**

In most cases, poor pond water quality, is a result of an overload of organic matter, including excess nitrogen and phosphorous. This build-up serves as a food supply, for algae, anaerobic bacteria, and certain weeds. You may not only see algae blooms and conditions, but you can often smell the results of poor quality

Organica Pond Clarifier is an all-natural, microbial based product effective for maintaining better pond and lake water. It contains absolutely no synthetic chemical ingredients. It is a concentration of selected, proprietary, naturally occurring microbes which act to bring pond water back into ecological equilibrium. The result is reduced organic sediment and particulates in ponds, reduced sludge, enhanced conditions for aquatic life, and clearer, cleaner water.

### **WHAT IS ORGANICA POND CLARIFIER?**

There are literally, millions of different naturally occurring microbes in our world. We have found a way to isolate and create unique products from certain microbes to perform highly specific, beneficial tasks. The microbes in Organica Pond Clarifier help restore natural balance in situations where environmental factors have led to unstable and unhealthy water quality conditions.

### **HOW DOES ORGANICA POND CLARIFIER WORK?**

Pond Clarifier creates clean pond and lake water through natural biological processes. It introduces beneficial

microbes which pre-emptively, consume the food source which supports algae and anaerobic bacteria growth. Without food, algae die. As a result, water quality improves. You will see cleaner, clearer water based on a healthy, naturally balanced pond ecosystem.

The active microbes in Organica Pond Clarifier consume excess nutrients from the bottom to the surface, thanks to a unique oxygenator ingredient. At temperatures from 10°C to 40°C (50° to 100° F), Organica Pond Clarifier keeps working, and is especially, effective used in conjunction with mechanical aeration devices. With these conditions, you will typically, see crystal clear water in two to three weeks.

### **WHY ORGANICA POND CLARIFIER?**

In many cases, copper sulphate is used as a quick remedy, for unbalanced, out-of-control pond water conditions. Copper sulphate does produce a fast result. But the results are temporary. Additionally, application of copper sulphate adds heavy, metals into the environment. Compared to chemical treatments, Organica is a better choice for a number of reasons:

1. Completely, non-toxic to plants, animals, water life, and people
2. No harmful residual effects
3. Completely, and naturally, biodegradable
4. No natural resistance to its benefits over time
5. Long-term effect
6. No applicator license required





## SPECIFICATIONS

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Natural, microbial-based product containing 800 billion per kilo of genus Bacillus and other soil bacteria capable of biodegrading cellulose, lignin, hydrocarbon, and other organic pollutants in pond and lake water to reduce algae, scum and odour. Completely biodegradable, non-toxic to humans, animals, and water life.

## QUALITY CONTROL

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Organica` Pond Clarifier is produced by a fermentation process at Organica's strictly controlled, sterile, pharmaceutical-quality, manufacturing facility, in Norristown, PA.

## DIRECTIONS FOR USE

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### First application

- Use 3kg of Organica Pond Clarifier, depending on pond condition, per 1000m<sup>3</sup> of water.\* If using product in water-soluble bags see conversion table for dose.
- For best results, provide adequate surface aeration.
- Organica Pond Clarifier is most effective when water temperatures range from 10 to 40° C. Apply by, broadcasting as much as possible around pond and lake edges.
- Avoid dumping product in one concentrated location.

### Subsequent applications

- Use 1kg of Organica Pond Clarifier per 1000m<sup>3</sup> of water monthly.\*

\* For computing volume of a pond or lake in gallons, use one of the following formulas:

Length X width X depth (in feet) X 6.22 = number of UK gallons

OR, 1 acre/foot = 270,000 gallons

OR, 1,000m<sup>3</sup> = 230,000 gallons

## STORAGE AND DISPOSAL

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- Shelf life: 2 years.
- Keep container tightly closed.
- Store in original container.
- Store in a cool dry place; avoid exposure to direct sunlight.
- Dispose in accordance with Federal, State, and Local regulations, following Natural Soil Bacteria Protocol.

## CAUTIONS

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**EYES:** Organica Pond Clarifier is moderately, irritating to the eyes. Wear eye protection when working with Organica Pond Clarifier.

**SKIN:** Dermal exposure may, cause mild skin irritation. Avoid contact. Wash hands thoroughly, after use.

Consult the Material Safety Data Sheet for specific instructions.

### PLEASE NOTE

Organica Inc. gives no safety liability warranty, expressed or implied, and assumes no responsibility for improper application, misuse, or mishandling. It is solely the responsibility of the user to take appropriate precautions.

**For more information on *Pond Clarifier*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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# Organica®

Remarkable products from Nature's own laboratory

## SEED COAT

Facilitates Seed Germination and Helps Prevent Disease

### Active Ingredients

Proprietary blend of various species of genus *Bacillus*, *Streptomyces*, and various beneficial *Pseudomonas*. Also contains fermentation-derived phosphorous-solubilizing bacteria, nitrogen-fixing bacteria, cytokinin-producing bacteria, essential amino acids and vitamins.

### Description

Organica's Natural Seed Coat Germinator helps the speed and success rate of seed germination. The beneficial microbes assist in the growth of seeds, reducing the establishment time at a period when seeds are most prone to disease. The beneficial microbes in Organica Seed Germinator require organic matter, oxygen, moisture, and soil temperature from 10° to 50°C (40° to 105° F) for optimum performance. In these conditions, Organica Seed Germinator provides specific benefits for the viability of seed germination. Independent trial data on a wide variety of seeds has shown a greater percentage of seed germinating with a concomitant reduction in time.

### Advantages

- Increases seed germination and viability
- Stimulates plant growth by naturally accelerating cell division.
- Increases plant membrane permeability for more efficient nutrient uptake
- Stimulates root development.
- Increases root respiration and formation
- Stimulates the presence of desirable soil micro-organisms
- Stimulates plant enzymes





## SUGGESTED APPLICATION RATE:

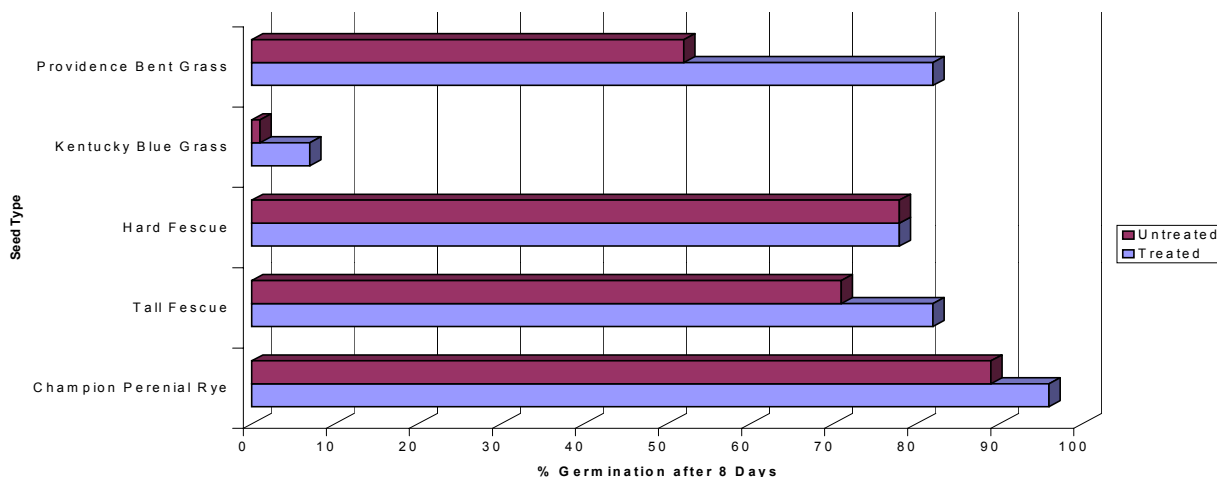
As Seed Coat: Blend 1 kg Organica's Seed Coat Germinator with 100 kg seed. Sow as normal.  
Soil/Compost drench: Dissolve 2 tablespoons in sufficient water to cover 100m2 area. Repeat weekly.

For best results, use in conjunction with Organica's kelp based fertiliser, Marine-Gro.

### Trial results on herbs

Species	% Germination after 10 days			
	Peat Free Compost		Peat Compost	
	Control	Treated	Control	Treated
Basil	81.0	88.5	83.3	91.7
Feverfew	60.4	67.2	60.4	70.3
Fennel	85.4	88.5	90	87.0
Coriander	39.0	44.4	56.8	57.8

Effects of Organica's Seed Coat on Germination of Various Grass Seed



## Storage and Disposal

- Shelf life of powder 5 years
- Keep container tightly sealed
- Store in original container
- Store in a cool, dry place and avoid direct sunlight
- Dispose in accordance with Federal, State, and Local regulations

## Cautions

- Do not eat or drink this product.
- IN EYES. Moderately irritating to the eyes. Eye protection should be worn.
- ON SKIN. Dermal exposure may cause mild irritation of skin. Avoid contact.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.
- Wash hands thoroughly after using.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field conditions may vary and therefore no warranty or performance guarantee should be implied from such information. It is the responsibility of the customer to take appropriate precautions

**For more information on Seed Germinator  
 Call 0151 653 0253 or fax 0151 653 0353**





# Organica®

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## SEPTIC TANK PRODUCT

### Active Ingredients

Proprietary blend of naturally occurring organisms with the ability to produce large quantities of cellulase, protease, lipase, and other essential enzymes for biodegradation of common septic tank organics.

### Description

Organica's Septic Tank Product has been formulated to produce maximum degradation of organic compounds commonly found in septic systems. This rapid reduction is achieved by selecting specific micro-organisms that have the ability to produce beneficial digestive enzymes which are able to survive under the conditions commonly found in septic tanks of cesspools.

Septic Tank Product is an all natural, environmentally friendly septic tank and cesspool maintenance product. It is safe for use in institutional settings or for home use. With regular use it prevents clogs from occurring in your septic system. It can reduce the cost of septic tank and cesspool maintenance because its digestive enzymes breakdown organic waste such as grease, fat, paper, starch, and protein. It is non-corrosive to pipes, it is an effective alternative to leading caustic products that damage pipes and the environment. Independent lab results have proven that Septic Tank Product contains higher concentrations of beneficial enzymes.

### Advantages

- Contains only naturally occurring micro-organisms
- Non-caustic, non-corrosive, non-volatile, and non-flammable
- Free of acids, lyes, petroleum solvents or other harsh chemicals
- Completely biodegradable and environmentally friendly





## Suggested Application Rate

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All applications of **SEPTIC TANK Product** require it to be flushed down plumbing outlets at night with water. Each week rotate to a different outlet to apply product, e.g. Toilet, Bath, Sink, Basin, etc

### SEPTIC SYSTEMS (Maintenance Program):

Powder - Every month place one water soluble bag into the septic tank.

Liquid - Every week pour 200ml (1 cup) into a different plumbing outlet.

### SEPTIC SYSTEMS (Smelling):

Powder - Each week for 4 weeks place two bags into the septic tank. Then use one bag every month thereafter.

Liquid - Each week for 4 weeks pour 400ml (2 cups) into a different plumbing outlet. Then use 200ml (1 cup) every week thereafter.

### SMELLY PLUMBING OUTLETS (Inside):

**Powder** - Place 1 bag of Septic Tank product combined with 2 cups of water into the smelly plumbing outlet late at night. If possible do not use plumbing outlet until next day. One application is all that should be needed. If smell returns, repeat application.

**Liquid** - Pour 100ml (1/2 cup) of Septic Tank product combined with 2 cups of water into the smelly plumbing outlet late at night. If possible do not use plumbing outlet until next day. One application is all that should be needed. If smell returns, repeat application.

## Storage and Disposal

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- Shelf life: Powder- 2 years. Liquid - 1 year
  - Store in original container.
  - Store sealed in a dry place at room temperature not exceeding 100 degrees F.
  - DO NOT ALLOW PRODUCT TO BECOME WET OR MOIST PRIOR TO USE.
- DO NOT FREEZE.

## Cautions

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- Inhalation and direct skin contact should be avoided. Dust protection for eyes, nose and mouth should be used. In the event of direct skin or eye contact, flush the affected area with water. If irritation persists, contact your physician.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS.

The information contained herein is based on test information obtained by Organica. This data is believed to be reliable, but field conditions may vary and therefore no warranty or performance guarantee should be implied from such information.

**For more information on *Septic Tank Product*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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## ORGANICA'S SODIUM REDUCTION PROGRAMME

Organica's Sodium Reduction Programme addresses the problems associated with trying to grow/maintain turf and other plants in soils containing abnormally high levels of salt. Plants maintained under these conditions are unable to efficiently absorb water and essential plant nutrients. In addition high salt levels promote the disintegration of soil aggregates leaving the soil impermeable to water and oxygen further exacerbating the problem. Organica's Programme provides for the displacement of sodium ions, which are then utilised and immobilised by a unique microbial system. The programme also serves to improve soil structure and reduce compaction, hence further facilitating the reduction of sodium levels by accelerating the leaching process.

### Step 1) Organica's Fast Release Calcium Therapy

Organica Fast Release Calcium Therapy has the capacity to quickly displace sodium ions adsorbed to soil particles. Through the process of ion exchange freed calcium ions replace the sodium ions, which previously adhered to soil particles through surface retention (adsorption). In addition to displacing sodium ions this application will provide for improved soil structure, reduced soil compaction and enhanced seed germination. Apply product at the rate of 2-3 gallons per acre depending upon salinity levels. Use higher rate on soils with sodium levels greater than 500 ppm.

### Step 2) Organica's Slow Release Calcium Therapy

Organica's Slow Release Calcium Therapy works on the same principle as the Fast Release Therapy, however this application provides for slow release ion exchange over extended periods of time. This step works synergistically with step 1 and allows for complete sodium ion dissociation from soil particles. It too improves soil structure, reduces compaction and enhances seed germination. Apply product at the rate of ½ ton per acre.

### Step 3) Organica's Halophilic Microbial System

Organica's Halophilic Microbial System contains 10 proprietary strains of bacillus bacteria that have an affinity for sodium ions. These microbial species utilise the sodium for cellular functions and have the capacity to tie-up free sodium ions in the soil. Apply at the rate of 2 gallons per acre.







#### **Step 4) Organica's Humate - Oxygen Therapy**

Organica's Humate-Oxygen Therapy serves as a food source and slow-release source of oxygen for the Halophilic Microbial System. It serves to expedite and maintain the establishment of the beneficial micro-organisms so crucial to the success of the programme. In addition step 4 provides the necessary nutrients to promote the establishment of the seed/sprigs used during the grow-in phase. Apply at the rate of 5-10 lbs per acre. Use higher rate on soils low in organic matter:-

- Step 1 and step 2 should be applied the same day.
- Wait 1-2 weeks and then apply step 3 and step 4. The Halophilic Microbial System (liquid) and the Humate-Oxygen Therapy (water-soluble suspension) may be tank mixed and applied simultaneously. Be sure to use the mixture within 6 hours of tank mixing!
- The programme should be administered to soils containing high levels of salt 5 times per year until salt levels fall within normal parameters.
- Thereafter programme should be administered twice a year to maintain soil health.
- The programme may be accelerated by doubling the dosage rates for the first application, then follow programme as prescribed.



# Organica®

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## WATER CLARIFIER

*Reduce algae and maintain cleaner irrigation water  
without chemicals*



### Active Ingredients

Natural, microbial-based product containing 800 billion per kilo of genus Bacillus and other soil bacteria capable of biodegrading cellulose, lignin, hydrocarbon, and other organic pollutants in pond, lake and irrigation water to reduce algae, scum and odour. Completely biodegradable, non-toxic to humans, animals, and water life.

### Description

In most cases, poor water quality, is a result of an overload of organic matter, including excess nitrogen and phosphorous. This build-up serves as a food supply for algae, anaerobic bacteria, and certain weeds. The algae cause problems by physically blocking irrigation systems. This can be avoided by regular use of Organica's Water Clarifier, which clears the common algae, and blanket weeds found in reservoirs and storage tanks. Use of the product has shown that it even removes blanket weed that has been fixed to the side of tanks for years. Organica Water Clarifier is a concentration of selected, proprietary, naturally occurring microbes which act to bring water back into ecological equilibrium. It contains absolutely no synthetic chemical ingredients. Water Clarifier creates clean water conditions through natural biological processes. It introduces beneficial microbes which pre-emptively, consume the food source (such as phosphate and nitrates) which supports algae and anaerobic bacteria growth. Without food, algae die and as a result, water quality improves. You will see cleaner, clearer water based on a healthy, naturally balanced water ecosystem.

### Advantages

- Eliminates scum and algae a cause of blockages in irrigation systems
- Digests excess organic matter in storage ponds and lakes
- Non-toxic to plants
- Improves water clarity





## Directions for Use:

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### **Powder:**

- Apply 200g powder for every 15,000 gallons (70m<sup>3</sup>).
- Reapply every month or as conditions dictate.

### **Water Soluble Packets:**

- 1 packet treats 15,000 gallons. Simply place in water, packet dissolves in 1 minute.
- Reapply every month or as conditions dictate.

### **Timing:**

For best results apply the product year round, reducing the dose rates during winter to half the recommended values. If starting treatments during winter apply two packets.

## Storage and Disposal

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- Shelf life: 2 years.
- Keep container tightly closed.
- Store in original container.
- Store in a cool dry place; avoid exposure to direct sunlight.
- Dispose in accordance with Federal, State, and Local regulations, following Natural Soil Bacteria Protocol.

## Cautions

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- **EYES:** Organica Water Clarifier is moderately, irritating to the eyes. Wear eye protection when working with Organica Water Clarifier.
- **SKIN:** Dermal exposure may, cause mild skin irritation. Avoid contact. Wash hands thoroughly, after use.
- Consult the Material Safety Data Sheet for specific instructions.

### **PLEASE NOTE**

Organica gives no safety liability warranty, expressed or implied, and assumes no responsibility for improper application, misuse, or mishandling. It is solely the responsibility of the user to take appropriate precautions.

**For more information on *Water Clarifier*,  
Call (0)151 653 0253 or fax (0)151 653 0353**

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