



# Sapropeet-Deutschland

von der Natur für die Natur

In agreement with Düng-Gesetz DueG Germany  
Natural environmentally friendly micronutrient fertilizers,  
based on Sapropel (natural moor mud)  
with fast effect, marked by multifunctionality and high efficiency

Sapropeet is a soil additive and plant aid produced in Germany which causes a more active soil life and better nutrient transport in plants and all crop types while regarding the fertilizer ordinance of the European legislation. The Sapropeet can be used in all agricultural areas without alteration as well as arboriculture, vegetable growing and gardening. With that it has a unique selling point compared with regular products. Sapropeet is listed in the utilities list Germany for the ecological farming (FIBL) and in "Biologisch gärtnern" (biological gardening). Sapropeet can be used throughout the year independent of the season.



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From the nature for the nature

## Sapropeet the soil adjuvant and plant aid for a more active soil life in all growing media

With Sapropeet

- the plants profit of a higher efficiency of the fertilizer as well as a lowered washing out of nutrients (environmental protection)
- the plants have higher nutritional requirements as a result of increased cell stability and size.
- the bio mass production increases because of the included microorganisms – this results in an increased quality and better taste.

Sapropeet offers many advantages

- it enhances the general soil structure and water absorption capacity of plants
- it works as a natural catalyst for micro elements in alkaline soil and increases the usability for the plants
- it increases the permeability of the cells' membrane, the roots as well as nutrient intake
- it animates the production of the plants own enzymes
- it delays the dismantling of UV unstable active substances such as vitamins and iron
- adding it improves the living conditions of the liberating bacteria, resulting in their ability to fix molecular nitrogen from the atmosphere to be increased almost by 10 times.
- Through the living bacteria the soil is enriched by up to 6 times the amount of oxygen, leading to an enhanced life in the more fertile soil.
- Nitrates and phosphates are absorbed faster (at 3-5 degrees already) and easier by the plants.

Store dark and frost free

## Sapropeet-fertilizer with living bacteria

The bacteria in the fertilizer Sapropeet cause phosphates and nitrogen to be made available to the plants as quickly as possible. Sapropeet fertilizers with the natural bacteria work at 3 - 5 degrees, no matter whether organic or inorganic. This means that the plants are supplied much earlier. In addition, the soil is enriched with an enormous amount of oxygen and a better soil life results. Sapropeet fertilizer with the natural living bacteria protects the environment, helps the soil to regenerate and gives the plants a higher vitality. This means a higher cover.



Sapropet

**Application:**

Shake Sapropet before each use. Sapropet can be used throughout the life of the plants in all cultured substrates. A slight smell of sulfur is due to the contained effective monoorganisms and therefore does not represent a loss of quality.

For the seed treatment:

1 l Sapropet mix with 15 l water. In the pickling process, add 1 l of Sapropet to 1 t of seed into the pickling drum.

**YOUR BENEFITS:**

30 - 35% stronger root growth, thereby 40 - 60% lower wintering and in the spring to vegetation start better stocking and thus more plants per m<sup>2</sup> thus equals to more yield.

Soil treatment:

Apply 500 ml of Sapropet / ha in the initial spray.

**YOUR BENEFITS:**

Soil activation can begin, so the plants can absorb more nutrients with less fertilizer.

Vegetation:

At the beginning of the vegetation, in the spring and at each injection, add 300 ml / ha into the injection.

**YOUR BENEFITS:**

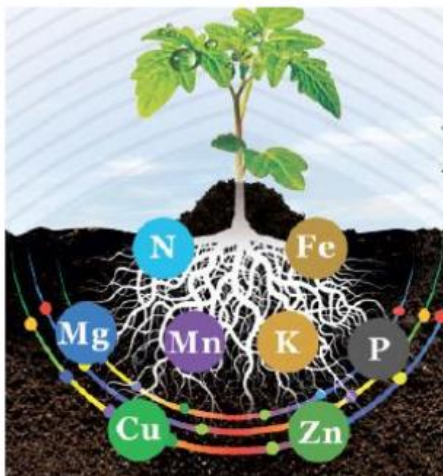
At least ca.15% increase in yield with approx. 25% less mineral fertilizer. In organic farming, a yield increase of up to about 50% or more.

The ingredients:

During harvest, this results in a higher protein and sugar content.

**YOUR BENEFITS:**

For them, higher yields with better quality and thus much higher contribution per ha.





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Who is behind Sapropeet- Germany?

Franz Wichmann, owner of Sapropeet Germany, trained farmer, drinking water consultant and certified specialist consultant. Mr. Wichmann still operates a farm. In the past 3 years, under his leadership, a product called Sapropeet has been marketed as a soil aids and plant aids, in compliance with the European Fertilizer Regulation. The result is a product which can be used without any changes for all areas of agriculture, vegetables and gardening, and thus has a high distinction / distinction between conventional products. Extensive tests with products from the individual areas were made and the results were evaluated neutrally under official supervision. The results speak for Sapropeet and can be submitted at any time. In collaboration with official testing institutes and LUFA, the BIO approval for the product Sapropeet has been achieved. Sapropeet is also listed in the "FiBL" operating list and in "Biologisch gärtnern". The product Sapropeet is a soil additive and a plant aid for a more active soil life in all cultured substrates. It can be used all year round and is not seasonal. As the distinguishing / all-adjustment features, B. the following findings are presented and demonstrated: - despite the same N-min the same yields, approx. 40 kg / ha from the atmosphere. Important, compliance with the Fertilizer Ordinance, less nitrogen = same to higher yields. - Up to 6 times more oxygen in the ground, thus an improved soil life, especially with difficult soils. - Improved dry resistance, up to 35% deeper and stronger root formation. - Phosphates and nitrates are made available at low temperatures by Sapropeet's own bacteria. - With the use of Sapropeet the cover contribution / ha will significantly increase. - The product is manufactured in Germany and is available at any time. - The worse the conditions for the plants, the better the effectiveness of Sapropeet.

Sapropeet Deutschland

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Confirmation on the basis of the documents submitted confirms that the following commercial products are the prerequisite for inclusion in the list of plants for organic farming in Germany, in the FiBL list eco-processing. Company: Sapropeet Deutschland Brockhausener Straße 70 DE 59227 Ahlen E-Mail: Internet: [www.Sapropeet-deutschland.de](http://www.Sapropeet-deutschland.de) [info@Sapropeet-deutschland.de](mailto:info@Sapropeet-deutschland.de) Product: Sapropeet Flooring Aids The product complies with the following regulations / directives: FiBL list Eco-processing Demeter Germany Demeter International Naturland The limitations set out in the "List of Employees and / or FiBL's list of eco-processing" also apply to the other directives listed. This confirmation is valid until: 31.01.2018



### **Application / dosage of Sapropeet - cultivation of rape seed -**

To start the area before sowing with 0.5 l Sapropeet / ha spray or immediately after sowing (the sooner, the better) until the end of November possible. Their usefulness is that phosphates and nitrates already present in the soil are made available by the living bacteria for the rape. The rape forms up to 30% broader and more intense root. In addition, up to 6 times more oxygen is stored in the soil in the autumn, which means that the entire soil life is improved.

The second injection with Sapropeet, 0.3 l / ha, should take place at the beginning of vegetation. Their use is a much better plant metabolism, which means that more nutrients are absorbed at a faster rate, even at temperatures of 3-5 degrees, and up to 8 x more nitrogen is absorbed from the air.

The third injection with Sapropeet, 0.3 l / ha, should be done in stages 20-25, before flowering. Its use is a further enhanced plant metabolism from the root to the flower.

We are at your disposal for any advice.



### **Application / dosage of Sapropeet - cultivation of winter cereals -**

To start the area before sowing with 0.5 l Sapropeet / ha spray or immediately after sowing (the sooner, the better) until the end of November possible !!!

Their usefulness is that phosphates and nitrates already found in the soil are made available for the cereal plants by the living bacteria. Formation of up to 35% more root mass.

The second injection with Sapropeet, 0.3 l / ha, should be carried out at the start of vegetation in spring. Their benefit is a much better availability of nutrients even at low temperatures. The third injection should take place about 4 weeks after the second injection with 0.2 l Sapropeet / ha.

Your benefit:

a better plant metabolism takes place, better and faster absorption of nutrients, higher sugar and protein content, thus better quality.

Experiments in the Münster region have shown that a yield increase of up to 16% in wheat was in contrast to the untreated areas. In addition, the protein content and the TKW are higher and thus have a better quality.

We are at your disposal for any advice.





### **Application / dosage of Sapropeet - cultivation of maize -**

To start the area before laying with 0.5 l Sapropeet / ha spray or immediately after laying (the sooner, the better). Their usefulness is that phosphates and nitrates already present in the soil are made available to the maize plants by the living bacteria. In addition, up to 35% more root mass is formed, which means that the maize gets much deeper water from the deeper layers when dry.

The second injection with Sapropeet, 0.5 l / ha, should take place at approximately 3-10 sheets. Their use is a much better plant metabolism, which means that more nutrients are absorbed.

Your benefit:

providing the plants with nutrients even at low temperatures, a much better metabolism of the plants, better and faster absorption of nutrients, higher sugar and protein content, higher yield.

Experiments in the Osnabrück area have shown that a yield increase in the grain of 13 - 26% and in the whole plant of 16 - 28% was achieved, compared to the groups without Sapropeet, in addition the protein and sugar content was higher and thus was better Quality.

We are at your disposal for any advice.



#### **Application / dosage of Sapropeet - cultivation of sugar beet -**

To start the area before laying with 0.5 l Sapropeet / ha spray or immediately after laying (the sooner, the better). Their usefulness is that phosphates and nitrates already present in the soil are made available for the beet plants by the living bacteria.

The second injection with Sapropeet, 0.5 l / ha, should take place at approx. 4-6 sheets. Their use is a much better plant metabolism, which means that more nutrients are absorbed.

Your benefits:

Plant care with nutrients even at low temperatures, a much better metabolism of the plants, better and faster absorption of nutrients, higher sugar content, higher yield.

Experiments in the Osnabrück region have shown that there was an increase in yield of 26 - 43%, compared to the groups without Sapropeet, and the sugar content was higher and thus a better quality was obtained.

We are at your disposal for any advice.



**Application / dosage of Sapropheet with live bacteria - permanent greenland and field grass -**

In the autumn to the vegetation end 500ml Sapropheet / ha splash. Their use: improvement of the soil organisms, a much higher oxygen content in the soil, stronger, better and denser root formation of the grass, better wintering.

In the spring to begin vegetation start 500ml Sapropheet / ha. Your benefit: Faster and earlier conversion of the phosphates and nitrates at 3 - 5 degrees to the bioavailability for the plants, better utilization of the economic fertilizer and a stronger plant metabolism. 500 ml Sapropheet / ha should be injected after each cut.

Your benefit:

The living bacteria bind more nitrogen from the atmosphere, they have a better plant metabolism, higher yields with a higher crude protein and sugar content.

We are at your disposal for any advice.



**mit Sapropeet                      1.10.2014                      ohne Sapropeet**  
**Application / Dosage of Sapropeet - Bedding and Balcony Plants -**

Before planting the plants, root the root ball in the Sapropeet solution. Dosage: to 10 l of water 30 ml Sapropeet

Benefits:

A better and stronger root formation, which then develops into a healthier and more resistant plant.

Pour the remaining solution over the soil, then pour 3 ml of Sapropeet over the soil every 3 weeks with the dosage to 1 liter of water.

Your benefit:

Longer, more beautiful and powerful plants, as can be seen in the pictures of the fuchsias.

We are at your disposal for any advice.



### **Application / Dosage of Sapropeet - Indoor Plants -**

Immerse the root balloon. For orchids and pot plants in general, it is recommended to place the pot for a short time in a Sapropeet solution every 3 weeks, then drain. Solution: Dilute 3 ml of Sapropeet with 1 liter of water.

Every 14 days, Sapropeet should be added to the water (concentration 1: 500 - 2 ml Sapropeet to 1 liter of water).

Your benefit:

A stronger, more beautiful and more intense flowering, especially a much longer flowering period.

We are at your disposal for any advice



### **Experience report with Sapropeet at the bamboo stands of IKEA**

Hello, my name is Lisa Maria Wichmann and I got a sample Sapropeet from my father Franz Wichmann, owner of the company Sapropeet Deutschland and am just thrilled. I have given in the water of the right plants a few drops of Sapropeet and in the left just water. The bamboo stands are with me in the kitchen on the window sill where the sun comes from at noon. And lo and behold, after about 8 weeks, the two plants look like... WOW! There is a difference like day and night. The right plant grows and grows and well the left grows also, but much slower, it is no comparison. The roots of the right plant are also nearly twice as long as left one's. I have also used Sapropeet in my other plants in the apartment and they look great. Unfortunately, I have no before / after photos to show you the comparison. Meanwhile, all plants get some Sapropeet once a month with me. I put into my watering can about 1.5l water and 20ml Sapropeet. It is unplausibly good for plants.

You can find more experiences on the homepage: [www.Sapropeet-deutschland.de](http://www.Sapropeet-deutschland.de)!



#### **Application / dosage of Sapropeet - applying a lawn surface -**

We recommend to Spray the seed 750 ml Sapropeet / ha before sowing or immediately after sowing. In the garden approx. 30 ml in 10 l water with the watering can.

Your BENEFITS:

A faster and denser root system is formed, the lawn can absorb more nutrients faster and better by the living bacteria. After the first cut or in the first plant protection treatment, inject 400 ml of Sapropeet / ha.

Your BENEFITS:

The lawn becomes denser with a stronger cell structure. After approximately 20 days, after the cut, spray 300 ml of Sapropeet / ha.

Your BENEFITS:

Better development of the lawn and better absorption of the nutrients, as well as better UV protection for the lawn.

For existing and finished lawns, we recommend spraying 400 ml of Sapropeet / ha 3 times a year.

Your BENEFITS:

You will get a more beautiful and dense lawn with less mineral fertilizer.

We are at your disposal for any advice.



### **Application / Dosage of Sapropeet - Cultivation of vegetables**

At the start, root the seedlings in Sapropeet (mixing ratio 3: 500) or spray directly after planting or sowing, 500 ml Sapropeet / ha.

Fertilization should be done at least 2 times with per 400 ml of Sapropeet / ha. Between the injections should be 15 - 21 days.

Your benefits:

Supply of plants with nutrients even at low temperatures, a much better metabolism of the plants, better and faster absorption of nutrients, higher sugar and protein content, higher yield.

We are at your disposal for any advice.





### **Application / dosage of Sapropheet - cultivation of strawberries -**

To start in the spring, the first fertilization with 600 ml Sapropheet / ha into the first injection. The fertilization should be carried out at least 2 times with 500 ml Sapropheet / ha until harvesting. Between the fertilizers should be about 21 days. From the flowering should be no longer fertilized.

After harvest, spray the plants again, 500 ml / ha, to increase the resistance to winter conditions.

Your benefit:

Forming more fruit buds with a higher sugar content and thus a better taste, and there is a higher yield.

We are at your disposal for any advice.



#### **Application / dosage of Sapropeet - cultivation of tomatoes -**

At the beginning the roots of the seedlings in Sapropeet (mixing ratio 3: 500) or spray directly after planting or sowing, 600 ml Sapropeet / ha.

The fertilization should be at least 3 times with per 300 ml Sapropeet / ha over the leaf. Between the injections should be 15 - 21 days.

After the first batch of flowers, the plants should be supplied with dripping water, about 1 ml per plant (mixing ratio 1: 500), every 21 days.

Your benefit: the plants are supplied with nutrients at low temperatures, a much better metabolism of the plants, better and faster absorption of nutrients, more flowerings, higher sugar and protein content, higher yield.

We are at your disposal for any advice.



#### **Application / dosage of Sapropeet - potato cultivation -**

For the start, 500 ml Sapropeet / ha (the sooner, the better) immediately before laying or during laying or immediately after laying. Their usefulness is that phosphates and nitrates already present in the soil are made available to the potato plants by the living bacteria. The second treatment, 300 ml Sapropeet / ha, should be carried out in the 3rd - 5th leaf stage. Their use is a much better plant metabolism, whereby more nutrients are absorbed more quickly.

The third treatment, 300 ml Sapropeet / ha, should be carried out approximately 3-4 weeks after the second treatment. Their use is a much better plant metabolism, stronger and healthier potatoes, more resistant to diseases.

Experiments in the Osnabrück region have shown that a yield up to 18% higher and up to 23% more marketable potatoes.

We are at your disposal for any advice.



#### **Application / dosage of Sapropeet - cultivation of berry apple -**

To start in the spring (as soon as possible) give the first fertilization with 500 ml Sapropeet / ha into the first injection.

The fertilization should take place at least 2 times with 400 ml Sapropeet / ha until flowering, between the fertilizations should be about 21 days. From the flowering period should no longer be injected.

After harvest, spray the plants again, 500 ml / ha, to increase the resistance to winter conditions.

Their benefits:

They have a much better metabolism of the plants, better and faster absorption of nutrients, a higher sugar and protein content and a higher yield.

We are at your disposal for any advice.



**Left: with Sapropeet yield of 6.7t per hectare**

**Right: without Sapropeet yield of 4.8t per hectare**

Before the oat was winter wheat growing on the field, after the harvest of the wheat the area was bred 12cm deep and then sown with mustard as intercropping. The mustard has died over the winter. In the first week of March, the oats were sown directly into the winter gourd with the rotary harrow. At the stage about 5 the area was sprayed with 1.5l Sapropeet per ha. At stage 10, 24<sup>3</sup> pig manure per hectare has been applied. At stage 15, a herbicide treatment has been performed. No treatments have been carried out after this.  
Markus Arnemann Ahlen