

# ORGANIC



**grønn**  
gjødsel

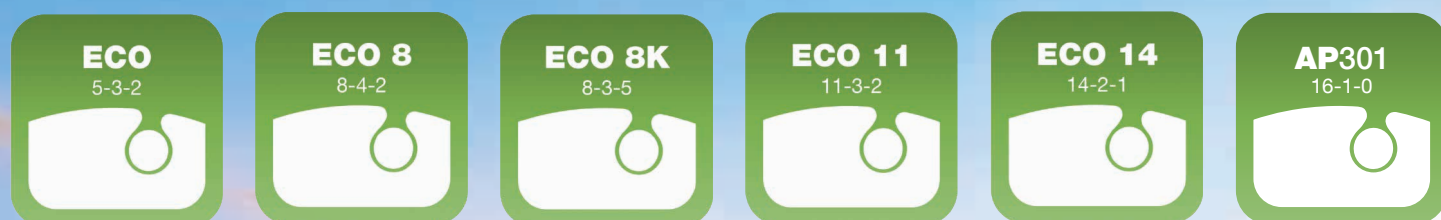
# A COMPLETE ORGANIC PROGRAM

Grønn Gjødelse springs from Norwegian poultry production, and we are still an active chicken producer. In 1985, the start-up for the production of pelleted organic fertilizers was based on raw materials from poultry production. Since then, the business has evolved into what is today called Grønn Gjødelse AS. The natural fertilizer / chicken manure is pelleted in its own factory in Rakkestad.

We have customers all over Europe, both in conventional and organic agriculture, lawn producers, golf courses and outlets at garden centers.

We constantly strive to satisfy the customer's desire for fertilizer type, packaging and quality. As a grain producer, we use our own fertilizer products. We can therefore guarantee that our products are very efficient and provide optimal and lush growth!

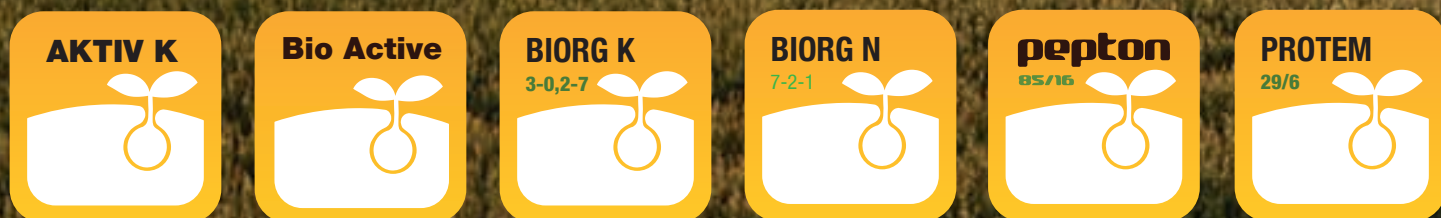
## PELLET FERTILISERS



## MINERAL FERTILISERS



## DRIP & LEAF FERTILISERS



## LEAF MINERAL FERTILISERS





# PELLETS



**ECO**

5-3-2

**ECO 8**

8-4-2

**ECO 8K**

8-3-5

**ECO 11**

11-3-2

**ECO 14**

14-2-1

**AP301**

16-1-0





**Eco is our original organic fertilizer, pelleted and adapted to modern organic farming. Eco is made from hygienized chicken manure and contains 2.7% calcium as well as all the essential plant nutrients. For many organic farmers, Eco has become a standard.**

**Exclusive:** Eco 5-3-2 is produced from "processed" chicken manure which gives it wonderful properties.

**Homogenized:** The ingredients in Eco are evenly mixed, ensuring equal content in each pellet. It provides smooth distribution of all nutrients.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pelleted:** Eco is pelleted in size 4-5 mm.

Easily maneuverable for immersion and fertilization.

**Soluble and renewable:** Nutrients are easy available with lasting effect. This gives the plants access to nutrients throughout the growing season.

**Value:** One of the most economical fertilizers available on the market.

**Eco (5-3-2) is a versatile organic fertilizer**

**Eco is made from 100% organic raw materials**

**Eco contains 0.4% magnesium**

**Suitable for deep fertilization**

**Suitable for fertilizing established stock**

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	5 %
Phosphorus (P)	3 %
Potassium (K)	2 %
Calcium (Ca)	2,7 %
Magnesium (Mg)	0,4 %
Sulfur (S)	0,5 %
Boron (B)	27 ppm
Manganese (Mn)	379 ppm
Iron (Fe)	402 ppm
Copper (Cu)	69 ppm
Zinc (Zn)	341 ppm
Silicon (Si)	291 ppm



#### Content

Composted and hygienic:  
Chicken/hen manure

The fertilizer is chlorine free.  
Volume weight: 0.75 kg / liter



#### Recommendation

50-100 kg / decares

General fertilizer recommendation, quantity must be adjusted. Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.

15 kg/600 kg





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**ECO 8**

8-4-2



**Eco 8 is a versatile organic fertilizer, pelleted and adapted to modern organic farming. Eco 8 is made of hygienized chicken/hen manure and bonemeal. It contains a lot of calcium and the essential plant nutrients. Eco 8 is our original organic fertilizer.**

**Efficient:** Eco 8-4-2 is based on chicken manure and protein meal.

**Homogenized:** The ingredients are evenly mixed, like ensures a uniform amount of nutrition in each pellet.

**Persistent:** The industry is easily accessible with effect through the growing season.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pellets:** Pellets in size 4-5 mm. Easily maneuverable for immersion and fertilization.

**Fertilizer value:** One of the most economical fertilizers available in the market.

**A versatile organic fertilizer low in potassium**

**Suitable for high pH soils**

**Well suited for deep fertilization**

**Well suited for fertilizing established stock**

**Eco 11 and eco 14 are also recommended for enriching the soil**

**Quarantine period: Do not fertilize after 21 days before harvesting or grazing**

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	7,5 %
Phosphorus (P)	4 %
Potassium (K)	2 %
Calcium (Ca)	7,6 %
Magnesium (Mg)	0,3 %
Sulfur (S)	0,4 %
Boron (B)	6 ppm
Manganese (Mn)	133 ppm
Iron (Fe)	414 ppm
Copper (Cu)	26 ppm
Zinc (Zn)	65 ppm
Silicon (Si)	178 ppm



#### Content

Composted and hygienic:  
Chicken/hen manure  
Protein meal

The fertilizer is chlorine free.  
Volume weight: 0.75 kg / liter



#### Recommendation

50-100 kg / decaire

General fertilizer recommendation, quantity must be adjusted. Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.

15 kg/600 kg

**ECO 8K**  
8-3-5



**Eco 8K is a versatile organic fertilizer for grain / legume, pasture and grass. Eco 8 K is made of hygienized chicken dung and bone meal, containing 7.3% calcium, 2.9 sulfur and essential plant nutrients. Eco 8K is our best-selling fertilizer.**

**Efficient:** 8-3-5 is based on chicken manure

**Homogenized:** The ingredients are evenly mixed, like ensures a uniform amount of nutrition in each pellet.

**Persistent:** The industry is easily accessible with effect through the growing season.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pellets:** Pellets in size 4-5 mm. Easily maneuverable for immersion and fertilization.

**Fertilizer value:** One of the most economical fertilizers available in the market.

**From 2020 with an even more soluble nitrogen source**

**Suitable for deep fertilization**

**Pasture and grass production: Very suitable for fertilizing established plant stock**

**Cereals and legumes: For fertilizer, eco 11 (11-3-2) or eco 14 (14-2-1) of established stock is recommended**

**Period of residence: Do not fertilize after 21 days before harvesting or grazing**

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	7,5 %
Phosphorus (P)	3 %
Potassium (K)	5 %
Calcium (Ca)	7,3 %
Magnesium (Mg)	0,2 %
Sulfur (S)	2,9 %
Boron (B)	14 ppm
Manganese (Mn)	90 ppm
Iron (Fe)	499 ppm
Copper (Cu)	19 ppm
Zinc (Zn)	120 ppm
Silicon (Si)	135 ppm



#### Content

Composted and hygienized poultry manure

meat and bone meal  
SOP

The fertilizer is chlorine free.  
Hectolitre weight: 75 kg.

15 kg/600 kg



#### Recommendation

50-100 kg / decaire

General fertilizer recommendation, quantity must be adjusted. Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.





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**ECO 11**

11-3-2



**Eco 11 is the original organic fertilizer made from processed chicken manure and protein flour and contains 4.8% calcium and essential plant nutrients. Eco 11 is one of the fastest available sources of nitrogen in the organic fertilizer market.**

**Effective:** 11-3-2 is based on chicken manure

**Homogenized:** The ingredients in Eco 11 are evenly mixed, ensuring equal content in each pellet. It provides even distribution of all nutrients.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pelleted:** Eco 11 is pelleted in size 2-4 mm. Easy to handle when molding and eutrophication.

**Soluble and renewable:** Nutrients are readily available with a lasting effect. This gives the plants access to nutrition through the growing season.

**Value:** One of the most economical fertilizers available on the Norwegian market.

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

**Eco 11 is one of the fastest available nitrogen sources in the organic fertilizer market.**

**Magnesium: 1.2%**

**Suitable for deep fertilization under normal conditions and high pH in the soil**

**Suitable for fertilizing established plant stock**

**Quarantine period: Do not fertilize after 21 days before harvesting or grazing**



#### Analysis

Nitrogen (N)	10,5 %
Phosphorus (P)	2,8 %
Potassium (K)	1,9 %
Calcium (Ca)	4,8 %
Magnesium (Mg)	1,2 %
Sulfur (S)	0,1 %
Boron (B)	12 ppm
Manganese (Mn)	67 ppm
Iron (Fe)	1099 ppm
Copper (Cu)	17 ppm
Zinc (Zn)	95 ppm
Silicon (Si)	111 ppm



#### Content

Composted and hygienized poultry manure

Bone meal  
SOP  
Blood meal  
The fertilizer is chlorine free.

Volume weight: 0.75 kg / liter



#### Recommendation

50-100 kg / decares

General fertilizer recommendation, quantity must be adjusted. Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.

15 kg/600 kg



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**ECO 14**

14-2-1



**Eco 14 is a versatile organic fertilizer made from hygienized chicken / chicken dung and protein meal. It contains unique 14% nitrogen, 2.1% calcium and all essential plant nutrients. Suitable for cereals, oilseeds and vegetables and works very well as partial fertilizers.**

**Exclusive:** Eco 14 is produced with "processed" chicken manure giving amazing properties.

**Homogenized:** The ingredients are evenly mixed, ensuring equal content in each pellet. It provides even distribution of all nutrients.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pelleted:** Eco 14 is pelleted in size 2-4 mm. Easily maneuverable for immersion and eutrophication.

**Soluble and renewable:** Nutrients are readily available with a lasting effect. This gives the plants access to nutrients throughout the growing season.

**Value:** One of the most economical fertilizers available on

the market.

**Eco 14 is one of the fastest available nitrogen sources in the organic fertilizer market**

**Eco 14 has the highest nitrogen content - compared to all our organic / organic fertilizers**

**Very suitable for deep fertilization (2-5 cm depth)**

**Suitable for fertilizing established plant stock**

**Quarantine period: Do not fertilize after 21 days before harvesting or grazing**

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	13,9 %
Phosphorus (P)	1,98 %
Potassium (K)	1 %
Calcium (Ca)	2,1 %
Magnesium (Mg)	0,1 %
Sulfur (S)	0,5 %
Boron (B)	9 ppm
Manganese (Mn)	272 ppm
Iron (Fe)	1735 ppm
Copper (Cu)	12 ppm
Zinc (Zn)	52 ppm
Silicon (Si)	69 ppm



#### Content

Composted and hygienic  
Chicken/hen manure  
Bone meal  
Blood meal  
The fertilizer is chlorine free.  
Volume weight: 0.75 kg / Liter.



#### Recommendation

50-100 kg / da  
General fertilizer recommendation, quantity must be adjusted.  
Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.

15 kg/600 kg





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**AP301**  
16-1-0



**AP 301 is an organic powdered fertiliser with a high nitrogen content. The content of the fertiliser meets the plant's needs during development. The production process ensures that the protein quality is maintained.**

**Exclusive:** AP 301 is made from protein meal.

**Homogenized:** The ingredients in AP 301 are evenly mixed which ensures equal content. It provides even distribution of all nutrients.

**Hygienization:** The raw materials are spray-dried at high temperature, which ensures good hygiene.

**Soluble and renewable:** Nutrients are readily available with a lasting effect. This provides the plants with the necessary access to nutrients throughout the growing season.

**Value:** One of the most economical fertilizers available on the market.

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	15,70 %
Calcium	0,38 %
Cadmium	1,30 %
Iron	0,30 %
Phosphorus (P)	0,38 %



#### Content

Hygienised protein meal  
Chlorine free



#### Recommendation

50-100 kg / da  
General fertilizer recommendation, quantity must be adjusted.

Refer to soil and leaf analysis, as well as consult your advisor, plant nutritional needs and crop level.

15 kg/600 kg

# MINERAL







**Patentkali is a highly concentrated fertilizer containing potassium and magnesium fertilizers (25% K) which also contains magnesium and sulfur, in an ideal balance for plants. All nutrients are easily water soluble and readily available.**

Patentkali has a low salt index and is practically chloride-free (max. 3%). It is therefore an ideal source of K, Mg and S for chloride and salt sensitive crops such as fruits, vegetables, potatoes, sunflowers and forest trees. Patentkali is extracted from raw potassium salt of natural origin in natural salt deposits formed by the evaporation of seawater many millions of years ago. Due to its natural origin and the minimal treatment in fertilizer plants, Patentkali is suitable for organic farming according to Regulations (EC) 834/2007 and (EC) 889/2008. Patentkali has also been certified by the Soil Association (UK) for use in organic farming systems. Particularly suitable for chloro-sensitive plants, such as potato. Patentkali has a positive effect on starch content, storage capacity and

palatability. Patentkali is effective on all soil types, regardless of pH. Mineral reserves in the soil always go down during cultivation. But not always, for example, most of the potassium in a harvested grain crop will be present in the straw. So when it is commercially reasonable to sell straw, it is important to increase potassium inputs to compensate. The potassium in Patentkali complements routine fertilizer applications.

High percent potassium (K) fertilizer on sulfate base is suitable for all chloride and salt sensitive crops. Due to high sulfur content, potassium sulphate is particularly suitable for plants with high sulfur (S) requirements, such as rapeseed, radish, cabbage and onions.

### Cereals and oilseeds

Apply at the beginning of spring, to oilseed rape to optimize the synthesis of yield, protein and oil. For wheat to increase yield and to ensure grain protein quality. On painted barley for yield and quality.

### Peas

Apply directly in the seedbed or immediately after germination. A zero-N fertilizer that brings readily available potassium and sulfur to the crop, and can therefore be taken up by the plant at an early stage to feed the nitrogen fixation, which occurs in the roots and for protein synthesis in the plant.

### Grass

Livestock manure is not a safe source of available potassium or sulphate, and is best regarded as maintaining soil reserves. Patentkali should be applied in accordance with nitrogen requirements as needed to achieve optimal grass growth throughout the season in proper K: N: S ratio.



### Analysis

Potassium sulphate ( $K_2SO_4$ )	min 50 %
Magnesium Sulfate ( $MgSO_4$ )	min 30 %
Other sulphates ( $CaSO_4$ , etc.)	ca. 1,5 %
Chlorides (KCl, NaCl)	5,5 %
Crystallization water ( $H_2O$ )	12 %



### Content

Water-soluble magnesium salt, potassium oxide, magnesium oxide and sulfur trioxide.

Size fractions:	
> 5.0 mm	2 %
2.0 - 5.0 mm	92 %
< 2.0 mm	6 %



### Recommendation

Refer to soil and leaf analysis, as well as consult your advisor, plant nutritional needs and crop level. Patentkali can be applied before growth starts in the spring. The goal is often to adapt the sulfur requirements to the potassium needs of the crop.

15 kg/1000 kg



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**Polysulfat**



**Polysulfate is an organic mineral fertilizer of a unique composition, an ideal choice of sulfate to fulfill the potential of a variety of organic crops. Well-suited for potatoes, vegetables and berries that have a higher potassium requirement than those covered with regular fertilizers.**

Consists of potassium, magnesium and calcium sulphates, water-soluble and readily absorbable. Grain size 2-4 mm and spreading of up to 36 m with centrifugal spreader. Studies show that the mineral reserves in the soil may decline, however most of the potassium lie in the straw. When it is profitable to sell straw, it is important to increase potassium input. The potassium in Polysulphate complements routine fertilizers.

Magnesium is part of the chlorophyll and crucial for photosynthesis, often only added directly crops and vege-

tables. It is removed in considerable quantities by harvest, and Polysulfate will provide a useful supply of a nutrient often overlooked.

The fourth component of Polysulfate is calcium. Calcium is responsible for proper plant cell division and for strengthening cell walls. Polysulfate helps maintain essential calcium reserves in the soil. Polysulfate is particularly suitable for crops that prefer low levels of chloride in the soil, such as in fruits, and where higher solids are desirable in potatoes and other vegetables.

Soluble, sulphate form for immediate use

Granular form, which provides flexibility to tailor the use

Concentrated, little storage need and is quick to disperse

A source of potassium, magnesium and calcium - bonus

Low chloride, so suitable for chloride sensitive crops

Environmentally friendly as it is used in its natural state - no processing or waste products, and no acidification

### Grain and oilseed

Apply at the beginning of spring, to oilseed rapeseed to optimize the synthesis of yield, protein and oil. For wheat to increase yield and to ensure grain protein quality. On painted barley for yield and quality.

### Peas

Apply directly in the seedbed or immediately after germination. Brings readily available sulfur to the crop, and can therefore be picked up by the plant at an early stage to feed the nitrogen fixation, which occurs in the roots and for protein synthesis in the plant.

### Grass

Livestock manure and manure is not a safe source of sulphate, and is best regarded as maintaining soil reserves. Polysulfate should be applied in accordance with nitrogen requirements to achieve optimal grass growth throughout the season in proper N: S ratio.



### Analysis

Svovel	19,2 %
Kalium	11,6 %
Magnesium	3,6 %
Kalsium	12,2 %
Klorider	5,0 %
Natriumoksid	4,4 %



### Content

From polyhalite rock, about 1000 meters off the North Yorkshire coast of the United Kingdom. Founded 260 million years ago, minerals lie in a special niche of natural ash from ancient times.

Contents:

48% SO<sub>3</sub> as sulfate  
14% K<sub>2</sub>O from potash sulphate  
6% MgO as from magnesium sulfate  
17% CaO from calcium sulfate

15 kg/1000 kg



### Recommendation

Refer to soil and any leaf analysis, as well as consult your advisor, plant nutritional needs and crop level.

Polysulfate can be applied before growth starts in the spring. The goal is often to adapt the sulfur requirements to the crop's nitrogen requirements. Where the amount of nitrogen is varied, for example in precision fertilizers, the Polysulfate amount can be varied to best match the total nitrogen use.



**EcoPlant is a chlorine-free mineral supplement and is therefore particularly suitable for chlorine-sensitive plants such as potatoes, vegetables, fruits and berries. EcoPlant can also add by a seed drill or between other cultivator means; for corn, sunflower, winter and spring rapeseed alone or as part of mixtures.**

EcoPlant is a natural alkali (pH 10-12) with high neutralization properties because it can reduce soil acidity. This makes EcoPlant most effective on acidic soil. EcoPlant contains up to 25% calcium carbonate and magnesium carbonate (CaO, MgO), ie 1 tonne EcoPlant has a neutralizing capacity equivalent to 0.35 tonnes of lime.

On top of potassium (K<sub>2</sub>O), EcoPlant contains phosphorus 4-6% (P<sub>2</sub>O<sub>5</sub>), magnesium 8-12% (MgO), sulfur 8-16% (SO<sub>4</sub>), calcium 10-17% (CaO). Therefore, the total content of important mineral elements in EcoPlant® is more than 70%, ie the highest among industrial granulated fertilizers such as ammophos (64%) or potassium chloride (60%).

## Minerals

EcoPlant is a natural alkali (pH 10-12) with high In addition to important mineral elements, EcoPlant also contains important trace elements: iron (Fe) - 1340 mg / kg, boron (B) - 1000 mg / kg, zinc (Zn) - 900 mg / kg, copper (Cu) - 240 mg / kg, manganese (Mn) - 150 mg / kg, chromium (Cr) - 6.3 mg / kg, molybdenum (Mo) - 1.5 mg / kg, cobalt (Co) - 0.37 mg / kg.

It gives EcoPlant an added advantage while using such crops as winter and spring rape, sunflower, corn, potato,

vegetables that use large amounts of trace elements.

It has been scientifically shown that apart from increasing productivity, using EcoPlant, it results in increases in raw materials with a dry matter content: protein in grain crops, fat in oil-bearing crops, vegetables in carbohydrates, fruits and beet, which improves their quality. Plants become more resistant to low temperatures and drought, and less vulnerable to root and stem rot.



### Analysis

Phosphorus	1,75 %
Potassium	23,24 %
Sulfur (sulfate)	2,4 %
Magnesium	5,8 %
Calcium	7 %
Iron	1000 ppm
Bor	300 ppm
Zinc	30 ppm
Copper	60 ppm
Manganese	60 ppm
Molybdenum	2 ppm
Cobalt	2 ppm



### Content

EcoPlant is a chlorine-free compound mineral fertilizer of plant origin, recommended for organic farming. Potassium (K<sub>2</sub>O) is an active basic ingredient that is 28-41% of the total compound, and is contained in the form of carbonates (K<sub>2</sub>CO<sub>3</sub>) and sulfates (K<sub>2</sub>SO<sub>4</sub>), easily absorbed by plants.

15 kg/1000 kg



### Recommendation

Refer to soil and any leaf analysis, as well as consult your advisor, plant nutritional needs and crop level. EcoPlant is most effective in the early stages of vegetables, maize, sunflower, winter and spring rapeseed if used during pre-cultivation application. Thanks to granular form, EcoPlant gradually dissolves, does not wash out of water and keeps effect.



**Eco 11 is the original organic fertilizer made from processed chicken manure and protein flour and contains 4.8% calcium and essential plant nutrients. Eco 11 is one of the fastest available sources of nitrogen in the organic fertilizer market.**

**Effective:** 11-3-2 is based on chicken manure

**Homogenized:** The ingredients in Eco 11 are evenly mixed, ensuring equal content in each pellet. It provides even distribution of all nutrients.

**Hygienized and composted:** The raw materials are composted at high temperature for a long time. Ensures infectious fertilizer.

**Pelleted:** Eco 11 is pelleted in size 2-4 mm. Easy to handle when molding and eutrophication.

**Soluble and renewable:** Nutrients are readily available with a lasting effect. This gives the plants access to nutrition through the growing season.

**Value:** One of the most economical fertilizers available on the Norwegian market.

#### Grain and oilseed

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Grass

50 - 80 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.

#### Vegetables

50 - 100 kg/daa

For partial fertilization and as needed, mulled down when sowing. 2 times fertilization by stretching grain plants. Dissolves quickly by 2 times fertilization in grass / meadow eg fertilizer after the first mowing.



#### Analysis

Nitrogen (N)	10,5 %
Phosphorus (P)	2,8 %
Potassium (K)	1,9 %
Calcium (Ca)	4,8 %
Magnesium (Mg)	1,2 %
Sulfur (S)	0,1 %
Boron (B)	12 ppm
Manganese (Mn)	67 ppm
Iron (Fe)	1099 ppm
Copper (Cu)	17 ppm
Zinc (Zn)	95 ppm
Silicon (Si)	111 ppm



#### Content

Composted and hygienized poultry manure

Bone meal  
SOP  
Blood meal  
The fertilizer is chlorine free.

Volume weight: 0.75 kg / liter



#### Recommendation

50-100 kg / decaire

General fertilizer recommendation, quantity must be adjusted. Refer to soil and possibly leaf analysis, as well as consult your adviser, plant nutritional needs and crop level.

15 kg/600 kg





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**Wigor S**



**Granulated sulfur fertilizer for better nitrogen utilization, approved for organic cultivation.**  
**Granulated sulfur fertilizer of free sulfur 90% S, 5% magnesium carbonate and 5% bentonite.**

From the soil, the plant roots take up the sulfur as sulfate ( $\text{SO}_4^{2-}$ ). The plants can also absorb sulfur like  $\text{SO}_2$  from air through the slit openings. Sulfur is transported to a very small extent from older to younger plant parts. Sulfur deficiency will therefore appear on the youngest leaves. Deficiency symptoms are pale green to yellow in color of the leaves, as well as reduced growth. Deficiency also leads to lower protein content in the plants.

Wigor S is a granular fertilizer containing 90% sulfur. Due to its swelling properties upon contact with water, the bentonite in the fertilizer [ $\text{pH} > 7$ ] causes the fragmentation of the sulfur. The sulfur molecules in the soil are oxidized

by microorganisms to the sulfur form which is absorbable by plants. The effect of the increase of sulfates in the soil occurs after only seven days of application of fertilizer and the further systematic activation of the sulfur provides an adequate supply of this element throughout the vegetative period.

Granulated sulfur fertilizer of pure sulfur is a favorable method to meet increased sulfur demand and to lower the pH level. Suitable for all cultures, special cultures and meadows. Sulfurphilic crops are rapeseed, peas, legumes, sugar beets and beets, and cereals: wheat, barley and corn on soil with sulfur.

### Wigor S

No runoff

5-10 times better effect than sulphate fertilizers

Saved pesticides

Strong immune system reduces fungal attack

Increases the absorption of nitrogen

The plants grow better

(Plants need 1 kg of sulfur to absorb 7 kg of nitrogen)

Higher feed value

More protein in cereals, grass and legumes

Increased oil production

Sulfur contributes to oil formation in oilseeds

Higher sulfur content in gluten acidifies the soil

Important for soil with too high a pH value

Increases the absorption of nitrogen

Increases feed value



#### Analysis

free sulfur

magnesium carbonate

bentonite

90%

5%

5%

Granulated sulfur fertilizer of free sulfur  
90% S -  
5% Magnesium carbonate -  
5% Bentonite.



#### Content



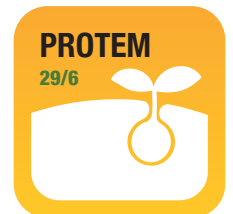
#### Recommendation

To be applied after soil analyzes. Depending on the crop and sulfur availability in the soil, the fertilizer is used in doses from 10 to 45 kg S / ha, making 11-50 kg fertilizer per hectare. The fertilizer can be used alone or in a mixture with other granular fertilizers.

1000 kg



# DRIP & LEAF







The way to go when you want to supply the plant with energy without the root system. With Pepton you buy valuable time when the growth potential is present and the plant needs immediate supply of nutrients and energy, as if spring when nutrient uptake from the root has not started.

Pepton 85/16 is an organic nutrient-rich foliar fertilizer. Pepton is ready material for the plant for growth and development. Typical situations are when the temperature in the soil causes the root to not start properly, after periods of drought, mineral deficiency or if the plants have become stressed or weakened. With Pepton, the plant will recover quickly, grow in line with its potential and lay the foundations for long-term further growth. Pepton 85/16 is a plant biostimulant with high concentration of amino acids, obtained from enzymatic hydrolysis, which releases and potentiates different reactions in plant metabolism, its biostimulating effect having a similar effect to that of plant hormones and natural growth regulators. With a full 85% amino acids and 16% free amino acids, Pepton is the most nutritious formula on the market, with 100% of the amino acids present in their most favorable form (L-isomer). The amino acids in Pepton are very easy for the plant to absorb

because they are enzymatically prepared from hemoglobin, an easily digestible protein. Pepton will thus also provide additional iron and potassium supplementation, which contributes to a deeper green color of the plants and more efficient photosynthesis.

Pepton is used on all types of leaf manure of crops; grass, cereals, potatoes, fruits, vegetables, etc. Unlike fertilizers to be absorbed through the root system, foliar fertilizers with Pepton will give quick effect. Pepton is often used in combination with other fertilizers or plant protection since the amino acids in Pepton open passage through wax layers into the plant's cells and thus facilitate the uptake of other substances.

Pepton comes in the form of microgranules, which are 100% water soluble, storage stable and easy to use. Pepton is also used for drip irrigation. Pepton is approved in organic farming by (EU) No 834/2007.

### Vegetables

Can be used at first watering. Depending on the plant structure, the dosage can be increased until harvest. Increases stress tolerance and helps flowers to withstand frost.

### Fruits, berries, nuts

Begin with first watering. Until harvest, the treatment can be done every 10-15 days. Easiest to add with irrigation system. Increases stress tolerance and helps flowers to withstand frost.

### Cereals, oilseeds, herbs

Can be used with irrigation system. For sprinkler systems, clean water should be given 10-15 minutes after fertilization.

### Flowers / ornamentals

Can be given weekly throughout the growing season. Dosage to be adjusted depending on the plants' development. Increases stress tolerance and helps flowers to withstand frost.

### Potato

Can be applied with irrigation system. For sprinkler systems, clean water should be given 10-15 minutes after fertilization. Increases stress tolerance and helps the plant withstand frost.



### Analysis

Nitrogen	13,6 %
Phosphorus	0,46 %
Potassium	5,9 %
Calcium	0,37 %
Magnesium	0,03 %
Sulfur	0,37 %
Boron	3,7 ppm
Manganese	5,2 ppm
Iron	2400 ppm
Copper	2,4 ppm
Zinc	36 ppm
Silicon	22 ppm



### Content

Alanine	Histidine
Lysine	Tyrosine
Arginine	Isoleucine
Methionine	Valine
Aspartic acid	Leucine
Phenylalanine	Proline
Cysteine	
Serine	All amino acids
Glutamic acid	in Pepton are of
Threonine	type L
Glycine	
Tryphophan	



### Recommendation

Foliar application:  
1,5 - 2,5 kg / 100 l water  
from 1 - 40 kg / ha

Drip irrigation:  
2 - 4 kg / ha / application.



**grønn**  
gjødsel



**Biorg N can restore the balance of the soil and enhance the vitality of the plants so that they can better exploit their own resistance to disease. Production will increase and the supply of nitrogen and phosphate may be reduced.**

Biorg N is an organic liquid fertilizer for use in most crops.

Biorg N is formulated for both spraying and drip irrigation and will not block inline filters. It is very economical to use and efficient because of its wide variety of nutrients. The high content of nitrogen and carbohydrates give the plants energy and trace elements contribute to a healthy and efficient soil life.

Biorg N consists of 100% natural products without chemical additives. Due to the low salinity, this fertilizer represents no risk of burning.

Biorg N is of 100% vegetable origin.

#### Vegetables

Fertilizer: 2-3 kg /da/week  
Leaf fertilizer: 200 g / 100 liters water  
Can be used already at the first watering. Depending on the plant structure, the dosage can be increased until harvest.

#### Fruits, berries, nuts

Fertilizers: 5-8 kg / da  
Leaf fertilizer: 250 g / 100 liters water  
Begin with the first watering. Until harvest, the treatment can be done every 10-15 days. Easiest to add with irrigation system.

#### Cereals, oilseeds, herbs

Fertilizers: 2-4 kg / da (weekly)  
Leaf fertilizer: 200 g / 100 liters water  
Can be used with irrigation. For sprinkler water systems, clean water should be given 10-15 minutes after fertilization.

#### Flowers and ornamentals

Fertilizer: 2-4 kg / da  
Can be given from the first watering.  
Depending on the plants' development, the dosage can be adjusted.



#### Analysis

Carbon	21,5%
Nitrogen	6,8 %
Potassium oxide	2,4 %
Phosphorous	0,2 %
Calcium	0,08 %
Natrium	0,9 %
Magnesium	0,25 %
Sulphur	0,5 %
Boron	16 ppm
Iron	69 ppm
Manganese	39 ppm
Copper	28 ppm
Zinc	86 ppm



#### Content

Organic based liquid fertilizer  
The fertilizer is chlorine-free.  
Hectolitre weight: 1.2 kg.

25/1000 kg



#### Recommendation

Drip irrigation:  
2 - 8 kg / daa / application

Leaf fertilizer: 100-250 g / 100 l water

General fertilizer recommendation, quantity must be adjusted. Take into account soil and possibly leaf analysis, nutritional needs and crop level.





**grønn**  
gjødsel



**Concentrated liquid extract extracted from pork tongs, without the use of chemicals. Bio Active is a great source of plant nutrients and organic carbon, and promotes strong and vigorous growth, excellent root development as well as increasing the plants' ability to withstand stresses from diseases and the environment.**

**Promotes strong root development**  
**Improves plant tolerance to environmental and biological stresses**  
**Stimulates activity to beneficial microbes**  
**The result is stronger and healthier plants**  
**Concentrated natural composition**  
**Low rates of use for greater affordability**  
**Increases plant power**

Description and effect of the components of Bio Active:  
Alginates (> 24% content usually) improve soil structure; forms crumb structure, increases aeration of soil and aerobic bacteria, increases moisture retention. With mannitol (> 10% content typically), carbohydrate, trace elements (present in seaweed and soil) are chelated and made available to plants.

Amino acids (alanine, valine, glycine, isoleucine, serine, tyrosine and stress-protecting amino-betaines); These natural L isomers are used by plants directly in the production of proteins.

Auxins (> 90 ppm content), plant hormones, are important

for development, allowing a plant to respond to external conditions. Auxins stimulate cell elongation and promote root formation.

Cytokinins (> 285 ppm content) promote cell division and plant growth.

Gibberellin (> 150 ppm content) regulates plant growth and enzyme production, breaks dormancy and stimulates cell prolongation and causes the plants to grow taller  
Betain (> 0.04% content) helps plants cope with stresses such as cold, heat, water shortages or high salt conditions and increases plant tolerance to abiotic stress.  
Fucoidan (> 8% content) provides plant protection in strong sunlight and harsh environments.

Laminarin (> 20% content) accelerates germination and plant growth and elicits defense response in plants that reduce plant infection by various diseases.

Mannitol (> 10% content) increases the availability of trace elements, increases a plant's tolerance to salt and osmotic stress, and has a role in a plant's response to pathogens; reduce biotic and abiotic loads. Mannitol is readily degraded and unlike cellulose, does not immobilize nitrogen.



### Analysis

nitrogen (N),	0,58 %
phosphorus pentoxide (P2O3)	0,29 %
1.02% potassium (K2O),	1,02 %
Boron (B), copper (Cu), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), zinc (Zn) alginates, amino acids, auxins, cytokinins, gibberellins, vitamins, betain, fucoidan, laminarin, mannitol	
Vitamins: A, B1, B2, B3, B5, B12, C, D, E, K, choline and carotene.	



### Content

Concentrated extract of sea algae

10 liter



### Recommendation

3 - 5 liters / ha  
dissolved in 300 - 500 liters of water



With 29% amino acids and 6% free amino acids of the most favorable form (L-isomer), the amino acids are very easily absorbable as they are enzymatically made from hemoglobin, an easily digestible protein. Protem will provide additional iron and potassium supplementation, which contributes to deeper greening of the plants and more efficient photosynthesis.

Protem 29/6 is an organic foliar fertilizer in liquid form, with high nutrient content. With Protem you can buy valuable time when the growth potential is present but the plant needs immediate supply of nutrition and energy. In other words, Protem is a ready-made raw material for the plant for growth and development. Typical situations are when the plant has the potential for growth but does not get everything it needs. It can be early spring, when low temperatures in the soil prevent the root from getting properly started, after periods of drought, mineral deficiency or if the plants have become stressed or weakened. With Protem, the plant will recover quickly, grow to its full potential and at the same time lay the foundation for long-term further growth. Protem strengthens all parts of the plant and adds growth and vitality. Protem is used on all types of leaf manure of crops; grass, cereals, potatoes, fruits, vegetables, etc. Unlike fertilizers to be

absorbed through the root system, Protem foliar fertilizers will have a quick effect. Protem is often used in combination with other fertilizers or plant protection since the amino acids in Protem open passage through wax layers into the plant's cells and thus facilitate the uptake of other substances. Protem comes in liquid form, is storage stable and easy to use. Protem is also used for drip irrigation. Protem is approved in organic farming by (EU) No 834/2007. Protem 29/6 is a plant biostimulant with high concentration of amino acids, obtained from enzymatic hydrolysis, which releases and potentiates different reactions in plant metabolism, its biostimulatory effect having a similar effect to that of plant hormones and natural growth regulators. Protem 29/6 is manufactured under strictly controlled conditions using high quality raw materials. Protem is produced as a concentrate in aqueous solution.

### Vegetables

Can be used at first watering. Depending on the plant structure, the dosage can be increased until harvest. Increases stress tolerance and helps flowers to withstand frost.

### Fruits, berries, nuts

Begin with first watering. Until harvest, the treatment can be done every 10-15 days. Easiest to add with irrigation system. Increases stress tolerance and helps flowers to withstand frost.

### Cereals, oilseeds, herbs

Can be used with irrigation system. For sprinkler systems, clean water should be given 10-15 minutes after fertilization.

### Flowers / ornamentals

Can be given weekly throughout the growing season. Dosage to be adjusted depending on the plants' development. Increases stress tolerance and helps flowers to withstand frost.

### Potato

Can be applied with irrigation system. For sprinkler systems, clean water should be given 10-15 minutes after fertilization. Increases stress tolerance and helps the plant withstand frost.



### Analysis

Total amino acids	29,0%
Amino acids free	6,0%
Total nitrogen	5,0%
Organic nitrogen	4,5%
Phosphate (P2O5)	0,25%
Potassium (K2O)	3,0%
Calcium (CaO)	0,01%
Iron (Fe)	750 ppm
Organic carbon	18,0%
pH	8,5 - 9,5

alanine	2,6%
arginine	1,1%
aspartic acid	3,7%
cysteine	0,2%
glutamic acid	2,6%
glycine	1,5%
histidine	1,8%
isoleucine	0,2%
leucine	4,3%
lysine	2,1%



### Contents

methionine	0,3%
phenylalanine	2,0%
serin	1,2%
threonine	0,7%
tryptophan	0,2%
tyrosine	0,6%
Valin	2,9%
Prolin	1,1%
Hydroxyprolin	<0,04%
Amino acids type L	



### Recommendation

On leaves:  
200-400 ml / 100 L water  
  
Drip irrigation:  
Use 4 - 7 liters / ha





**Biorg K can restore the balance of the soil and enhance the vitality of the plants so that they can better make use of their own resistance to disease. Production will increase and the need for supply of nitrogen and phosphate could be reduced.**

Biorg K is an organic liquid fertilizer for use in most crops. The high content of carbohydrates, potassium and nitrogen supplements give the plants energy. Tracers contribute to a healthy and efficient soil life. Biorg K consists of 100% natural products without chemical additives.

Biorg K is formulated for both spraying and drip irrigation and will not block inline filters. It is very economical to use and efficient because of its wide variety of nutrients.

Biorg K can restore the balance of the soil and enhance the vitality of the plants so that they can better exploit their own resistance to disease. Production per target will increase and the supply of nitrogen and phosphate could be reduced.

Due to the low salinity, this fertilizer represents no risk of burning.

Biorg K is 100% vegetable based.

#### Vegetables

Fertilizers: 2-4 kg / da (weekly)  
Leaf fertilizer: 200 g / 100 liters water  
Can be used already at the first watering. Depending on the plant structure, the dosage can be increased until harvest.

#### Fruits, berries, nuts

Fertilizers: 5-8 kg / da  
Leaf fertilizer: 250 g / 100 liters water  
Begin with first watering. Until harvest, the treatment can be done every 10-15 days. Easiest to add with irrigation system.

#### Cereals, oilseeds, herbs

Fertilizers: 2-4 kg / da (week)  
Leaf fertilizer: 200 g / 100 liters water  
Can be used with irrigation. For sprinkler water systems, clean water should be given 10-15 minutes after fertilization.

#### Flowers and ornamentals

Fertilizers: 2-5 kg / da  
Can be given from the first watering. Depending on the plants' development, the dosage can be adjusted.



#### Analysis

Carbon	21,5%
Nitrogen	2-3 %
Potassium oxide	7-9 %
Phosphorous	0,2 %
Calcium	0,08 %
Natrium	0,9 %
Magnesium	0,25 %
Sulphur	0,5 %
Boron	16 ppm
Iron	69 ppm
Manganese	39 ppm
Copper	28 ppm
Zinc	86 ppm



#### Content

Vinasse based liquid fertilizer  
The fertilizer is chlorine-free.  
Hectolitre weight: 1.2 kg.



#### Recommendation

Drip irrigation:  
1-5 kg / daa / application  
Leaf fertilising:  
100-250 g / 100 liters of water  
General fertiliser recommendation, quantity must be adjusted.  
Take into account soil and possibly leaf analysis, as well as consult your advisor, plant nutritional needs and crop level.

25/1000 kg



**Aktive K is a liquid fertilizer made from the water-soluble parts of Eco 8 K in combination with 20% Biorg K. Aktive K is approved for use in organic farming.**

Aktive K is a composite fertilizer of the water-soluble parts of Eco 8 K added 20% Biorg K. Aktive K approved for use in organic farming. Green Eco 8K 8-3-5 is a versatile organic fertilizer made from "processed" chicken / chicken manure, minced beef and vinasse. Green Eco 8K contains 7.3% calcium, 2.9

sulfur and the essential plant nutrients. Biorg K is an organic liquid fertilizer for use in most crops. The high content of carbohydrates, potassium and nitrogen supplements gives the plants energy. Tracers contribute to a healthy and efficient soil life. Biorg K consists of 100% natural products without chemical additives.

Crop	Objective	Recommendation
All types of crops	Increase stress tolerance	1-2 times 3-4 l / ha for plant stress.
"	Effective during use of pesticides	1.5 - 3 l / 100 liters of water in the syringe together with pesticides
"	Improvement in efficiency and tolerability, post-emergence after herbicide spraying, crop, vitality	1 - 2 l / ha, especially in cold weather
"	Yield, help flowers resist frost	1-2 times 2 l / ha
Cereals	Initial growth, crop, vitality	2 - 3 liter / ha
Potato	Yield, help flowers resist frost	1-2 times 2 l / ha



#### Analysis

Karbon (C)	4%
Nitrogen (N)	2%
Kaliumoksid (K <sub>2</sub> O)	2,5%
Fosfor (P)	0,3%
Kalsium (Ca)	1,3%
Natrium (Na)	0,2%
Magnesium (Mg)	0,05%
Svovel (S)	0,1%
Bor (B)	14 ppm
Jern (Fe)	16 ppm
Mangan (Mn)	20 ppm
Kobber (Cu)	11 ppm
Sink (Zn)	34 ppm
Silicium (Si)	21 ppm



#### Content

Organic fertiliser made from processed chicken-hen fertilizer and bone meal.

The fertilizer is chlorine-free.  
Hectolitre weight: 1.5 kg.

25/1000 kg

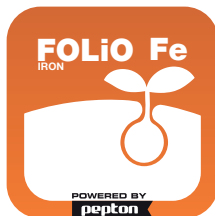
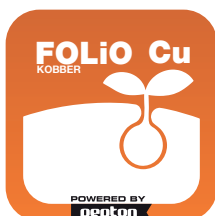


#### Recommendation

General fertilizer recommendation, quantity must be adjusted. Refer to soil and any leaf analysis, as well as consult your advisor, plant nutritional needs and crop level.



# MINERAL







**Folio Zn is ready formulated foliar fertilizer for spraying on foliage in vegetables, fruits, legumes, grains and oilseeds, after leaf analysis or as a preventative before periods of strong growth. Zinc deficiency is one of the most common types and can lead to a significant reduction in yield and quality.**

Zinc (Zn) is one of the eight essential micronutrients and can reduce yields by over 20% before visual signs occur. The cost of lost production is much higher than the cost of soil / plant tissue testing and zinc application. The mobility of zinc in plants varies, depending on soil availability and type of plant. When zinc is available, it is easily moved from older to younger leaves, but in the event of deficiency, the movement is delayed. Plants do not need much zinc, but it is important in a number of processes, such as growth hormone production and internode extension. Folio Zn contains a high concentration of zinc in combination with dispersant, which ensures that the zinc contacts the leaf

surface and growth can absorb it. The dispersant is vegetable and is organically transferable. To best help the growth out of a mineral deficiency, Folio Zn is added energy in the form of foliar fertilizer (Pepton). Folio Mn is absorbed in the growth within a few hours and the effect may be visible already on the same day. Folio Zn is supplied in powder form and should be mixed with water and can be used with other fertilizers or pesticides. Strengthens the plant's development of stems, buds and leaves. Stimulates the flower, formation and growth of the fruit. Approved in organic farming by (EC) No 834/2007.

Apple	Potato	Lettuce in open air	Grain	Raspberry
Strengthens growth and development: Before or after flowering. Feel free to repeat after 10-14 days. For cork crust-prone types of fertilizer, 6 weeks after flowering.	Enhances growth and development: Used one week after full sprouting, repeat once after 14 days, etc.	Strengthens growth and development: 10-14 days after planting / germination. At moderate deficiency repeat at 10-14 day intervals. Last treatment 1 month before harvest.	Strengthens growth and development: From the two-leaf stage to the first joint node becomes visible. In case of moderate deficiency, treatment repeated at 10 to 14 day intervals.	Strengthens growth and development: When buds are green or in multiple treatments: When buds are green, when buds are white and after harvesting.



#### Analysis

Zinc content (Zn)	min. 19,5 %
Pepton	20 %
Organic carbon	ca. 4 %



#### Content

All amino acids (in the Pepton part) are of type L	
alanine	threonine
lysine	glycine
arginine	tryptophan
methionine	histidine
aspartic acid	tyrosine
phenylalanine	isoleucine
cysteine	valine
serine	leucine
glutamic acid	proline

10 kg



#### Recommendation

Dissolves in water:  
50 - 200 grams (dry weight) per decar.





**Folio B is an organic foliar fertilizer used in the absence of boron. Folio B is used after a leaf analysis or as a preventative before periods of increasing mineral demand. Such periods are during flowering, fruiting or undergoing strong growth and development.**

Folio B contains a high concentration of boron in combination with a dispersant. The dispersant ensures that the mineral is in good contact with the leaf surface and the growth has a good opportunity to absorb it. The dispersant is made from plant material and is organically transferable.

Finished formulated foliar fertilizer for use in drilling deficiency by spraying foliage in vegetables, fruits, legumes and grains. Enhances plant development of buds and leaves. Stimulates the flower, formation and growth of the fruit.

To best help the growths out of a mineral deficiency, Folio B is added energy in the form of a foliar fertilizer (Pepton). Folio B is absorbed in the growth within a few hours and the effect may be visible already on the same day.

Folio B is supplied in powder form and should be mixed with water and can be used with other types of foliar fertilizers or pesticides. Folio B is dosed at between 50 and 200 grams (dry weight) per day, acres. Mix in water according to desired dosage, experience, soil or leaf analysis. Fertilizer approved in organic farming by (EC) No 834/2007.

#### Apple

Strengthens growth and development: Before flowering at risk of deficiency, otherwise after flowering is complete. Can be repeated after 10-14 days, but not after leaves are fallen.

#### Potato

Strengthens growth and development: Used one week after full germination, repeat once after 14 days, etc. Repeat up to 2-3 weeks after tuber formation.

#### Lettuce in open air

Strengthens growth and development: 10-14 days after planting/germination. In case of moderate deficiency repeat at 10-14 day intervals.

#### Cauliflower/Cabbage

Stimulate initial head formation. Especially at low soil temperatures in spring / early summer. From the 4-leaf stage. Repeat at 10 to 14 day intervals for moderate deficiency symptoms.

#### Raspberry

First treatment when the buds are green, second when they are white. The plants can also be treated after harvest.



#### Analysis

Boron content (B)	min. 11,2 %
Pepton	20 %
Organic carbon	ca. 4 %



#### Content

All amino acids (in the Pepton part) are of type L

alanine	threonine
lysine	glycine
arginine	tryphophan
methionine	histidine
aspartic acid	tyrosine
phenylalanine	isoleucine
cysteine	valine
serine	leucine
glutamic acid	proline

10 kg



#### Recommendation

Dissolves in water:  
50 - 200 grams (dry weight) per decar



**Folio Cu is an organic foliar fertilizer that is used after a leaf analysis or as a preventative before periods of increasing mineral demand. Copper (Cu) is one of the eight essential micronutrients. It is needed by plants in small quantities, but still important in a wide range of development processes.**

The availability of copper depends on soil type. Folio Cu contains a high concentration of copper in combination with a dispersant. Finished formulated foliar fertilizer for use against copper deficiency by spraying on foliage in vegetables, fruits, legumes, grains and oilseeds. The dispersant ensures that the mineral is in good contact with the leaf surface and the growth has a good opportunity to absorb it. The dispersant is made from plant material and is organically transferable. To best help the growth out of a mineral deficiency, Folio Cu is added energy in the form of a foliar fertilizer (Pepton).

Folio Cu is absorbed in the growth within a few hours and the effect may be visible already on the same day. Strengthens the plant's development of stems, buds and leaves. Stimulates the flower, formation and growth of the fruit.

Folio Cu is supplied in powder form and should be mixed with water and can be used with other types of foliar fertilizers or pesticides.

Mix in water according to desired dosage, experience, soil or leaf analysis. Fertilizer approved in organic farming by (EC) No 834/2007.

Carrot	Cauliflower	Lettuce in open air	Grain	Raspberry / Strawberry
Strengthens growth and development: When the plants are 15 cm high. In case of moderate deficiency, treatment is repeated at 10-14 day intervals.	Strengthens growth and development: At 4 to 6 leaf stage. For Moderate copper deficiency should be repeated once or twice every 10 to 14 days.	Strengthens growth and development: 10-14 days after planting / germination. In case of moderate deficiency repeat with 10-14 days interval. Last treatment at least 1 month before harvest.	Strengthens growth and development: From the two-leaf stage to the first joint node becomes visible. By moderate deficiency is repeated at 10 to 14 day intervals. In autumn wheat treatment before winter.	Strengthens growth and development: Early in the season, ie before flowering. May also be use after season.



#### Analysis

Copper content (Cu)	min. 12 %
Pepton	20 %
Organic carbon	ca. 4 %



#### Content

All amino acids (in the Pepton part) are of type L	
alanine	threonine
lysine	glycine
arginine	tryphophan
methionine	histidine
aspartic acid	tyrosine
phenylalanine	isoleucine
cysteine	valine
serine	leucine
glutamic acid	proline

10 kg



#### Recommendation

Dissolves in water:  
50 - 200 grams (dry weight) per acre.





**Ready-formulated foliar fertilizer for use against iron deficiency for spraying on foliage in vegetables, fruits, legumes and grains. Strengthens the plant's development of buds and leaves. Stimulates the flower, the formation and growth of the fruit.**

Folio Fe is used after leaf analysis or prophylactically before periods of increasing mineral demand. Such periods are during flowering, fruiting or during strong growth and development. Folio Fe contains a high concentration of iron in combination with a dispersant. The dispersant ensures that the mineral has good contact with the leaf surface, and the growth has a good opportunity to absorb it. The dispersant is made from plant material and is organically marketable. To best help the growth out of a mineral

deficiency, Folio Fe is added energy in the form of a foliar fertilizer (Pepton). Folio Fe is absorbed into the growths within a few hours and the effect can be visible already on the same day. Folio Fe is supplied in powder form and should be mixed with water, and can be used with other types of foliar fertilizers or pesticides. Folio Fe is dosed with between 50 and 200 grams (dry weight) per. acres. Folio Fe is an organically approved corrective for use in organic farming by (EC) no. 834/2007.

#### Apple

Strengthens growth and development: Before flowering at risk of deficiency, otherwise after flowering is complete. Can be repeated after 10-14 days. For cork crust exposed types, treatment is usually postponed until 6 weeks laterflowering.

#### Potato

Strengthens growth and development: Use one week after full germination, repeat once after 14 days, etc.

#### Salad open air

Strengthens growth and development: 10-14 days after planting/germination. In case of moderate deficiency repeat at 10-14 day intervals. Last treatment no later than 1 month before harvest.

#### Cauliflower

Stimulates incipient head formation, especially at low soil temperature spring / early summer. From the 4-leaf stage. Repeat at 10 to 14 day intervals for moderate deficiency symptoms.

#### Legumes

Strengthens growth and development: Start at 4-6 leaf stage to prevent general deficiency. At the start of flowering, repeat at the end of flowering to prevent internal discoloration.



#### Analysis

Iron content (Fe)  
Pepton  
Organic carbon

ca. 19 %  
20 %  
ca. 4 %



#### Content

All amino acids are of type L:

Alanin  
Lysin  
Arginin  
Metionin  
Asparaginsyre  
Fenylalanin  
Cystein  
Serin  
Glutaminsyre

Treonin  
Glycin  
Tryptofan  
Histidin  
Tyrosin  
Isoleucin  
Valin  
Leucin  
Prolin

10 kg



#### Recommendation

Mix in water according to desired dosage, according to experience, soil or leaf analysis

50 - 200 grams (dry weight) per. acre.



**Ready formulated foliar fertilizer for use against manganese deficiency for spraying on foliage in vegetables, fruits, legumes and grains. Enhances plant development of buds and leaves. Stimulates the flower, formation and growth of the fruit.**

Folio Mn is used after leaf analysis or prevention before periods of increasing mineral demand. Such periods are during flowering, fruiting or undergoing strong growth and development. Folio Mn contains a high concentration of manganese in combination with a dispersant. The dispersant ensures that the mineral is in good contact with the leaf surface and the growth has a good opportunity to absorb it. The dispersant is made from plant material and is organically transferable. To best help the growths from

a mineral deficiency, Folio Mn is added energy in the form of a foliar fertilizer (Pepton). Folio Mn is absorbed in the growth within a few hours and the effect may be visible already on the same day. Folio Mn is supplied in powder form and should be mixed with water and can be used with other types of foliar fertilizers or pesticides. Folio Mn is dosed with between 50 and 200 grams (dry weight) per acres. Folio Mn is ecologically approved corrective for use in organic farming by (EC) No 834/2007.

Apple	Potato	Lettuce in open air	Cauliflower	Legume
Strengthens growth and development: Before flowering at risk of deficiency, otherwise after flowering is complete. Can be repeated after 10-14 days. For cork crust-prone types, treatment is usually postponed to 6 weeks after flowering.	Enhances growth and development: Used one week after full sprouting, repeat once after 14 days, etc.	Strengthens growth and development: 10-14 days after planting / germination. In case of moderate deficiency repeat at 10-14 day intervals. Last treatment at least 1 month before harvest.	Stimulate initial head formation, especially at low soil spring / early summer. From the 4-leaf stage. Repeat at 10 to 14 day intervals for moderate deficiency symptoms.	Strengthens growth and development: Start at the 4-6 leaf stage to prevent general deficiency. At flowering start, repeat at flowering termination to prevent internal discoloration.



#### Analysis

Manganese (Mn)	min. 17 %
Pepton	20 %
Organic carbon	ca. 4 %



#### Content

All amino acids (in the Pepton part) are of type L:	
alanine	threonine
lysine	glycine
arginine	tryptophan
methionine	histidine
aspartic acid	tyrosine
phenylalanine	isoleucine
cysteine	valine
serine	leucine
glutamic acid	proline

10 kg



#### Recommendation

Dissolves in water:  
50 - 200 grams (dry weight) per decare.





**Folio Ca is a pre-formulated foliar fertilizer for use against calcium deficiency in potato, fruit and berries. Used after leaf analysis or as a preventative before periods of increasing mineral demand. Such periods are flowering, fruiting or strong growth and development.**

Folio Ca contains a high concentration of calcium in combination with a dispersant. The dispersant ensures that the mineral is in good contact with the leaf surface and the growth has a good opportunity to absorb it. The dispersant is made from plant material and is organically transferable. To best help the growths out of a mineral deficiency, Folio Ca is added energy in the form of a foliar fertilizer (Pepton). Folio Ca is absorbed into the growths within a few hours and the effect may be visible already

on the same day. Folio Ca is supplied in powder form and should be mixed with water and can be used with other types of foliar fertilizers or pesticides. Folio is dosed at between 50 and 200 grams (dry weight) per day. acres. Enhances plant development of buds and leaves. Stimulates the flower, formation and growth of the fruit. Mix in water according to desired dosage, experience, soil or leaf analysis. Folio Ca is an ecologically approved corrective for use in organic farming by (EC) No 834/2007.

### Apple

For development and color: 3-8 treatments at 10-14 day intervals from petal drop. For better color of the apples treatment when the fruit has begun to change color, often repeated after 7 days, normally 2-3 weeks for harvest.

### Potato

Stimulate early growth (1), increase tuber (2) and size (3): (1) Used one week after germination. (2) Used when half of the chair tops are twice as thick as the rest. (3) Two treatments when the tubers are about 10 mm, repeat once after 14 days.

### Lettuce in open air

Strengthens growth and development: 2-3 treatments starting 10-14 days after planting or germination. Treatment is repeated at 7-10 day intervals.

### Cauliflower

Stimulate initial head formation, especially at low soil spring / early summer. 2-3 treatments at the point of growth to first head formation. Especially at low soil temperatures in spring / early summer. Repeats every 7 to 14 days.

### Stone fruit

Stimulate growth and development: 2-5 treatments at 7-14 day intervals from petal drop.



### Analysis

Calcium content (Ca)	min. 18 %
Peptone	20 %
Organic carbon	ca. 4 %



### Content

All amino acids (in the Pepton part) are of type L

alanine	threonine
lysine	glycine
arginine	tryptophan
methionine	histidine
aspartic acid	tyrosine
phenylalanine	isoleucine
cysteine	valine
serine	leucine
glutamic acid	proline

10 kg



### Recommendation

Dissolves in water:  
50 - 200 grams (dry weight) per decare