Contact details of Genezis Partner

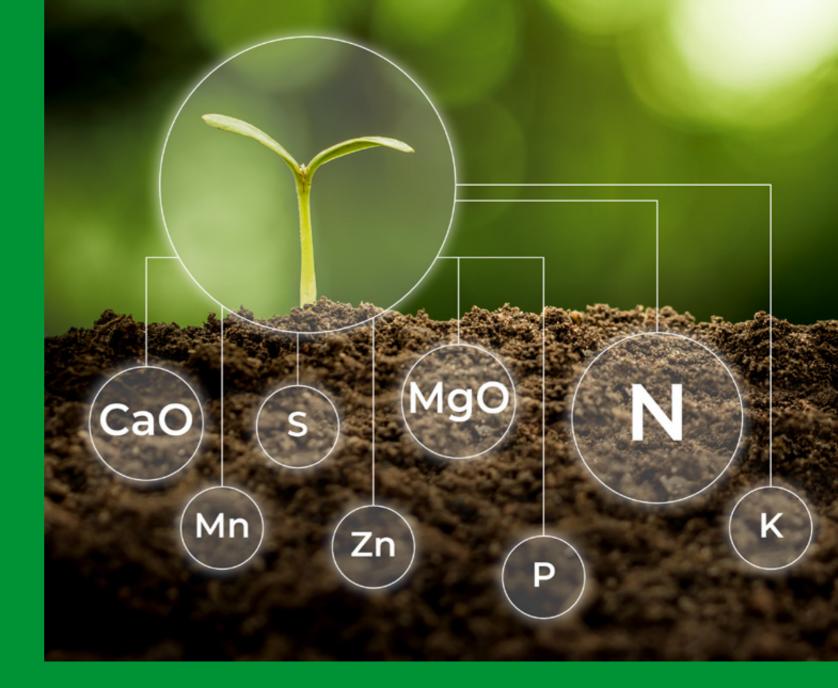
Arable land sales representatives:











GENEZIS

Fertiliser

Product catalogue

TABLE OF CONTENTS

Greeting	∠
Genezis nitrogen fertilisers	12
Suggestions for using Genezis nitrogen fertilisers	32
Genezis NP and NPK fertilisers	38
Genezis NPK suspension fertilisers	52
Suggestions for using Genezis NPK fertilisers	54
Genezis plant conditioner products	64
Genezis foliar fertilisers	68
Genezis water soluble fertilisers for irrigation	82
Genezis hobby garden products	84
Genezis winter wheat foliar fertiliser technology	90
Genezis maize foliar fertiliser technology	98
Genezis sunflower foliar fertiliser technology	100
Genezis rapeseed foliar fertiliser technology	102
Handling and storage guide	100
Notes	110

FULL RANGE OF AGRONOMIC SALES AND SERVICES

HIGH QUALITY COUNSELING AND SALES





The Genezis Technology includes a wide range of Genezis fertilisers, seeds and pesticides. The special advisors of the Genezis Partner Network help you choose products that are tailored to your special needs.

How can a Genezis Partner representative help you?

- High quality personalized agricultural counseling regarding the application of fertilisers, seeds and pesticides
- State-of-the-art technologies for nutrient replenishment
- Discount prices for soil inspection, leaf analysis and crop testing
- Produce buy-up from small scale and licensed producers at competitive daily prices with forward or spot buying
- Outstanding value for money
- Nation-wide supply with more than 50 sales representatives across the
- Flexible and quick administration
- Own logistics fleet











DEAR PARTNER



The events of the past four years have placed huge burden on Hungarian agriculture. No matter if its the disruptions in supply chains caused by the coronavirus pandemic or the energy crisis resulting from the Russo-Ukrainian war – both have made life difficult for Hungarian producers. Today's high production costs combined with a lower income per tonne on the market of agricultural finished products always have the same result: those who cannot farm efficiently will not survive. We at Nitrogénművek Zrt., as the representatives of the only Hungarian-owned fertiliser producing plant, feel responsible for not only supplying Hungarian agriculture with input materials in excellent quality, but also for maintaining the competitiveness of Hungarian agriculture and providing correct and reliable information to Hungarian farmers.

For more than 93 years, our company has worked tirelessly for the Hungarian agricultural sector, constantly innovating and adapting to environmental challenges. Our factories produce the most efficient, environmentally friendly and highest quality products in the world. Our flagship product, 'Pétisó', which has been produced in our country

for almost a century, stands out from its competitors with a total active ingredient content of more than 39%, thanks to its high calcium oxide and magnesium oxide content from natural dolomite sources.

We strongly believe that only the most efficient production can weather the storm in an increasingly competitive environment. It is equally true to agricultural production and chemical production. Working together with farmers and sharing our experience of almost 100 years is a prerequisite of successful production and development.

Our company can produce a full range of nitrogen fertilisers at its site in Pétfürdő, which is located in an area of over 500 hectares. In addition to our flagship product, Pétisó, we also offer newly developed products such as the sulphurous 'Kénes Pétisó' and Green Max. In addition to these, standard ammonium nitrate, urea and nitrosol are also available to our partners. At the plant of Bige Holding Kft. in Szolnok, we offer a wide range of NPK complex fertilisers. With our high quality irrigation and foliar fertilisers for arable and horticultural crops produced at the plant of Péti Nitrokomplex Kft., we offer a complete portfolio of fertiliser input materials for all Hungarian farmers.

Through our nationwide Genezis Partner Network, we sell our products in Hungary with the help of excellent professionals. Our sales representatives also provide agricultural counselling, sell pesticides and seeds (cereals and hybrids) and buy crops. With the help of Genezis Trans, our Group can meet all logistical challenges in-house with a fleet of more than 190 semi-trailers.

We would like to thank all our Partners for their successful cooperation and loyalty to our Company over the past years.

We wish you success in your farming endeavors!

Dávid Bige

Chief Business Officer



Géza Poprády Commercial and Network Development Director



László Cséri Sales Director West Hungary



Tibor Czakó Sales Director East Hungary



dr. Éva Dunainé Kósa Commercial Director of the Fertilise siness Unit, Bige Holding Kft., Szolnok



Trade Manager Péti Nitrokomplex Kft.



Zoltán Demeter **Managing Director** Nádudvari Agrokémiai Kft.







András Vermes Director of the Crop Trade Business Unit







DO THE MATH! MORE FERTILISER, MORE PROFIT!

Demand for food has increased significantly over the last few decades and this trend is expected to continue. Given the limited availability of arable land, the growing demand can only be met by intensifying production.

This will require, in particular, the use of varieties/ hybrids with higher yield potential, irrigation farming, more rational and harmonious fertilisation adapted to the needs of intensive hybrids/varieties, more modern and productive agrotechnology (cutting-edge machinery and modern plant protection, etc.), while maintaining and improving soil fertility (e.g. achieving a positive NPK-balance) and meeting the requirements of environmental protection. Otherwise, we will not be able to exploit the genetic potential of the biological base, i.e. even if we buy the more expensive, higher yielding variety, we will not achieve the desired average crop yield. Intensive farming not only means higher costs, but also higher yields; in case of intensive farming, the agrotechnical elements (variety selection, sowing, fertilisation, irrigation, crop protection) have a greater influence on average crop yield, while the ecological conditions (which are only partially or not at all under our control) have a lesser influence than in extensive farming. Let's keep in mind that the nutrient content of the soil determines the yield as much as the amount of nutrients applied in that year. Since the availability of organic fertilisers in our country is limited (in principle, 1 t for each hectare of arable land, which is equal to 10–15 kg/ha of NPK per year), applying fertilisers is almost the only cost-effective way of nutrient re-

plenishment. The events of 2022 and 2023 have led to significant increases not only in the prices of input materials, but also in crop prices.

We have thousands of results from experiments in the last 15 years, some of which are presented here, together with profitability calculations of course, to illustrate that intensive farming (while also meeting the requirements of environmental protection) does pay off and can even be more economical and result in higher incomes. In addition, achieving average crop yields that are almost the same every year (or at least above a certain level) (i.e. yield stability) seems to have gained importance recently, as it makes the following year's production much more predictable, and the distribution of income more reasonable, serving the aims of farming and its development. In one of our variety trials, we tested nine maize hybrids with FAO numbers between 360 and 420. In the area (Szentmártonkáta), all hybrids were grown applying two different NPK-doses (Plant and Genezis), side by side in the same field.

In the case of the Plant technology, neither phosphorus nor potassium was applied at 150 kg of nitrogen active ingredient, because it was considered not justified for soils with higher than medium PK nutrient content. In the Genezis technology we recommended, 150/20/36 kg of NPK active ingredient was applied based on the principle that even with better than medium PK content of the soil, maize will respond well even to low doses of fresh PK fertilisation.



Taking into account the current prices, we calculated at a production cost of 975 €/ha for the Plant technology and 1050 €/ha for the Genezis technology. We measured an average crop yield of 6.84-8.24 t/ha in the Plant field and 7.98-9.46 t/ha in the Genezis field, depending on the specific hybrid. At a farmgate price of 187,5 €/t, depending on the hybrid, this represented an additional sales revenue of 127,5-491,25 €/ha, 52,5-416,25 €/ha additional income in favour of the Genezis technology. At a farmgate price of 250 €/t, these were 170-655 €/ha and HUF 95-580 €/ha respectively. It means that even on a soil with a better than average PK-content, it is worth to apply even a low dose of PK fertiliser, as it leads to higher yield and, more importantly, additional income. Moreover, the break-even point (the crop price at which total revenues equal total production costs, meaning there is no gain or loss) was by 7,5-12,5 € lower for the Genezis technology than for the Plant technology.

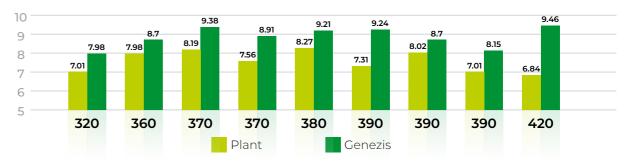


Figure 1 Yields of hybrids with different FAO numbers in the case of Plant and Genezis technology

In another Genezis experiment (Tiszanagyfalu), the Plant field received 96/20/10 and the Genezis field received 155/20/10 of NPK active ingredients. The average crop yield of maize was 11.03 t/ha and 13.05 t/ha, respectively. Calculated at current prices, the production cost of the Plant field was 850 \in /ha, and 990 \in /ha for the Genezis field.

Fertiliser	Plant technology	Genezis technology
Basic fertiliser	N/P/K = 15/20/10 kg/ha	N/P/K = 15/20/10 kg/ha
Top dressing	300 kg/ha Pétisó	520 kg/ha Pétisó
Foliar fertiliser	-	Genezis Maize 2 x 5 l/ha
Total NPK active ingredient kg/ha	96/20/10	155/20/10
Average crop yield t/ha	11.03	13.05

Table 1

At a farmgate price of $187,5 \le /t$, an additional sales revenue of $378,75 \le /ha$, so $238,75 \le /ha$ additional income was realised with the Genezis technology. At a farmgate price of $250 \le /t$, these were $505 \le /ha$ and $365 \le /ha$ respectively. This means that the application of a higher, but not unrealistically high additional amount of nitrogen results in a significant additional income even at current farmgate prices and production costs. There was no significant difference in the break-even point, and it was also quite low (75,86 \le /t and 30,344/tonne). Experience gained from our two experiments described above is that a harmonious dosage of fertilisers, adapted to crop needs and soil conditions, and based on expert counselling, can lead to higher average crop yields and higher incomes, as higher fertiliser prices are associated with higher crop prices.

Pétisó. Everything that Hungarian soil needs.

What we Hungarian farmers have in common is that we always make our decisions based on common sense and facts.

So when it comes to buying fertiliser, the choice is simple: Genezis Pétisó non-acidifying nitrogen fertiliser with uniquely high, 39% total active ingredient content, offering an outstanding value for money.

Thanks to its dolomite content, it stops soil acidification typical in our country; its excellent soil improving properties have been proven for over 93 years.



GENEZIS



For all soil types and plants High active ingredient content offered at the best price

Stops soil acidification 5% Mgo

Patented since
1931, proven
for over
93 years

Total active ingredient content

39%!

27% nitrogen, 7% calcium oxide and 5% magnesium oxide

Do the math:
it costs much more
when buying these
ingredients
separately!



Most of the successful farmers opt for Pétisó
Choose the one that really gets your
money's worth!

SOIL-FRIENDLY SOLUTIONS IN PLANT NUTRITION



Pétisó, premium quality since 1931, with incredibly high total active ingredient content at 39%!

In the nitrogen fertiliser market, there are few flexible fertilisers that are both gentle on the soil ecosystem and offer an effective crop nutrition solution. **Genezis Pétisó** is backed by more than **93 years of manufacturing experience** and is an original Hungarian product. The brand name Pétisó has rightly become the synonym for fertiliser! The aim was to offer agriculture a nitrogen fertiliser that does not acidify the soil.

Active ingredients of Pétisó

Pétisó provides effective supplementation of three macronutrients at the same time: nitrogen, calci-



um and magnesium. Its **nitrate com- ponent** is present in a form that can
be taken up immediately, while its **ammonium content** can be stored in

the soil for a short time and then either taken up by the plant in unchanged form or, after transformation (by micro-organisms), become available as nitrate ions.



Its **calcium content** contributes not only to better plant resistance, but also to the formation of a better soil structure, allowing the soil to absorb and

retain more water for the plants.

Its **magnesium content** is essential for chlorophyll



formation, a well-developed root system, stress tolerance, better ability of being fertilised and fuller grain formation

Premium quality in nitrogen fertilisation

Originally, Pétisó was produced using a technology called prilling, which we still use today.

Prilled Pétisó produced in this way contains premium quality grains with stable, porous structure. Its thermal stability is excellent, so there is less risk of recrystallisation, porosity and loss of active ingre-

dients during storage. It has the same water solubility, i.e. water absorption rate, as ammonium nitrate and is equally soluble but does not acidify. Thanks to its smaller particle size (0.8–4 mm), more particles are applied per 1 m², resulting in a uniform dispersion, homogeneous distribution of active ingredients and evenly growing plant population. That's why prilled Pétisó is now a basic pillar of top dressing rapeseed, wheat and many other crops. Very little washing in precipitation is required for it to be utilised, due its small granules

it has a high specific surface area, making it suitable for even delayed nitrogen top dressing. When uniform application with larger width fertiliser spreaders (36 m) is important, large-grain **granular Pétisó** with advanced granulation technology is the best choice. Granular Pétisó withstands physical impacts, its almost perfectly spherical granules make it easy to adjust the spreader, and it is less abrasive to metal parts. 98–99% of the grains of granular Pétisó fall into the main fraction and can therefore be evenly spread, resulting in uniform distribution of active ingredients and a uniformly developed plant stock. It is much less sensitive to storage than urea or ammonium nitrate.

Pétisó is the basic pillar of soil-friendly nitrogen fertilisation

Soil acidity affects 2.2–2.3 million hectares of land in Hungary. 43% of our soils are slightly acidic and 13% are heavily acidic in Hungary, and the proportion of this latter one has been on the rise. A soil is said to be acidic when its pH is below 6.8.

Soil acidity may be caused by climatic factors, soil-forming rock, topographic and hydrological conditions of the landscape, biological effects and last but not least, the unwise fertilisation practices of the past decades. It is time to put an end to such poor practices!

The use of Genezis Pétisó is the basic pillar of soil-friendly fertilisation. Today, Genezis Pétisó still fulfils this function perfectly, thanks to its extremely high dolomite content of 228 kg/t. As a result, with every tonne of Pétisó applied, dolomite with excellent utilisation feature is also applied in the value of HUF 20,000.

Dolomite is a soil conditioner that is also an excellent source of calcium and magnesium, and is an ingredient of Genezis Pétisó in the form of uniquely fine grains. In contrast, most MAS-type fertilisers do not contain dolomite as a source of calcium, but other less utilisable by-products with little or no magnesium content. The dolomite in Pétisó is uniquely finely ground (<40 µm) and its high specific surface area allows the best and fastest utilisation. The acidifying effect of fertilisers is shown by the lime index, which shows how many kilogrammes of calcium carbonate can neutralize the acidifying effect of 100 kg of fertiliser. The lower the lime index, the less acidification is caused by the given fertiliser. It can be clearly seen that ammonium nitrate acidifies the soil six times more than Pétisó (Table 2).

Pétisó has a very low lime index (practically zero based on practical experience), so, with its regular use, sustainable nitrogen fertilisation may be achieved. If, instead of Pétisó, ammonium nitrate is used under the same growing conditions, twice as much nitrogen is lost, and if urea is used, eighteen times as much nitrogen is lost because of volatilisation (Figure 2).

Lime index of various nitrogen fertilisers		
Fertiliser:	Lime Index	
Ammonium sulphate 20.5%	100	
Urea 46%	80	
Ammonium nitrate 34%	60	
Nitrosol 30 %	40	
Pétisó 27%	10	
Green Max – previous name 'Pétimészsó'	-30	

Table 2



There is more to Pétisó than just a nitrogen fertiliser, it is a complex formulation that does not acidify the soil!

Pétisó, the versatile nitrogen source

Pétisó is a universal product which can be used as a basal, starter and top dressing – without the germination inhibiting effect of urea. Pétisó can be used today, as in the past, in the nutrient replenishment of cereals, oilseed crops, protein crops and horticultural crops.



Figure 2: Nitrogen loss under the same growing conditions.

State-of-the-art production technology

Over 93 years of experience in production

Hungarian product

100% guarantee





GENEZIS GRANULAR PÉTISÓ

GENEZIS PRILLED PÉTISÓ



12

General features: Granulated, well spreadable fertiliser with a uniform particle size distribution, containing nitrogen, calcium and magne-

Recommended use: As basal, starter and top dressing in a dose of 100-600 kg/ha, based on the plant needs, the nutrient content of the soil, according to expert advice. Nitrogen fertilisation with divided doses according to the growth rate of the plant not only increases yield quantity and quality, but also improves nitrogen utilisation.

Advantages of the product: As it does not acidify the soil, it is excellent for acidic soils, soils prone to acidification and soils with magnesium deficiency. It not only supplies nitrogen but also helps to meet the plant's calcium and magnesium needs in a single application. The especially finely ground dolomite (average size of about 40 µm) ensures rapid utilisation of calcium and magnesium. Due to its large particle size, it can be applied with excellent dispersion to even a distance of over 24 m. Its almost perfectly spherical grains cause minimal abrasion to the metal parts of machinery. The larger, spherical grain shape allows more precise adjustment of the seed rate in the seeder. The hard, solid grains withstand physical impacts well.

Recommended crop: All arable and horticultural crops, for basal, starter and top dressing.

ACTIVE INGREDIENT CONTENT			
N	CaO	MgO	
27%	7%	5%	

















General features: Prilled, well spreadable fertiliser with a uniform particle size distribution, containing nitrogen, calcium and magnesium.

Recommended use: As basal, starter and top dressing in a dose of 100-600 kg/ha, based on the plant needs, the nutrient content of the soil, according to expert advice. Nitrogen fertilisation with divided doses according to the growth rate of the plant not only increases yield quantity and quality, but also improves nitrogen utilisation.

Advantages of the product: As it does not acidify the soil, it is excellent for acidic soils, soils prone to acidification and soils with magnesium deficiency. It not only supplies nitrogen but also helps to meet the plant's calcium and magnesium needs in a single application. Due to its smaller particle size and higher hygroscopic feature, it dissolves easily even at lower soil moisture contents, and is therefore highly recommended for delayed top dressing or in low precipitation conditions, with excellent dispersion and high temperature tolerance. The especially finely ground dolomite (average size of about $40\,\mu\text{m})$ ensures rapid utilisation of calcium and magnesium.

Recommended crop: All arable and horticultural crops, for basal, starter and top dressing.

ACTIVE INGREDIENT CONTENT		
N	CaO	MgO
27%	7%	5%













Nitrogénművek has more than 93 years of experience in the production of nitrogen fertilisers. We have developed a special fertiliser for acidic soils, for soils with calcium and magnesium deficiency, and for crops with high calcium and magnesium demand. This product is our Green Max.

Why was it so urgent to develop our Green Max product?

More than half of the arable land in Hungary is acidic (pH <6). It can no longer go on like this! Nutrient release and utilisation is limited even at pH 6 and below. At this value, only up to half of phosphorus is utilised. Is it worth stopping soil acidification? There is no doubt about that! Soil acidification is a precursor to desertification. In our country, it is one of the most significant soil degradation factor potentially affecting the largest areas. Not only is nutrient uptake from acidic soils limited, but deteriorating soil structure causes cultivation and rooting difficulties, inland waters and waterlogging are formed, causing airless soil, root suffocation, inhibited root growth, reduced life in the soil, unhealthy soil, calcium deficiency, and yield loss. Acidic soil can absorb and retain less water, intensifying the adverse effects of an already increasingly extreme climate. Over the last 30 years we have gradually acidified our soils.

What caused us to end up here?

The main reason is the ill-considered fertilisation concept of recent decades that we can and must change now.

It takes only a decade or two (not centuries) to destroy a good productive soil with acidifying fertilisers. In view of sustainable agricultural production, we must take actions to curb the soil acidification process caused by the use of acidifying fertilisers and a failure to introduce the necessary amount of calcium. The real culprits are urea and ammonium nitrate fertilisers. Continued use will further deteriorate, acidify the soil, the ingredients are poorly utilised as they are not fit for our climate! Their use in times of drought is dangerous. A significant part of them evaporates, is blown away by the wind, so nitrogen is simply lost.

The solution is a unique combination of nitrogen and soil conditioners: Green Max!

It amounts to 159 kg/ha nitrogen (N), 161 kg/ha calcium (CaO) and 116 kg/ha magnesium (MgO) per tonne! Finely ground dolomite powder with huge reactive surface due to its 40 μ m particle size.

Acidifying fertilisers are often characterised by their lime index. The lime index of ammonium nitrate is 60, that of urea is 80–100. In other words, the soil acidifying effect of 100 kg ammonium nitrate or urea can be compensated by the application of 60 or 80–100 kg of CaCO₃ at the same time.

ACTIVE INGREDIENT CONTENT			
上的人	N	CaO	MgO
	15.9%	16.1%	11.6%

The lime Index of Green Max is -30!
On acidic soils it is equivalent to a lime fertilisation with 300 kg/ha active ingredient.

Green Max has been tested in both winter wheat and maize, comparing its efficiency with urea and urea treated with inhibitor.

The results showed that in winter wheat **Green** Max increased yields by 970 kg/ha compared to urea and 520 kg/ha compared to urea treated with inhibitor. Even on calcareous soils, Green Max gave better results. In this case, Green Max produced a yield of 2,150 kg/ha higher than urea, and 1,230 kg/ha higher than urea treated with inhibitor. (Figure 3).



Figure 3
Yield advantage of Green Max
over urea in wheat (t/ha)

Our experiments in maize have shown similar results. In this case, Green Max yielded 750 kg/ha more compared to urea and 1,350 kg/ha more compared to urea treated with inhibitor.

On chalky soils, Green Max produced a yield of 1,570 kg/ha higher than urea and exactly 1,000 kg/ha higher than urea treated with inhibitor (Figure 4).



All of this proves that in the case of acidic soils, achieving that the pH-value is close to neutral, while in the case of calcareous soils, achieving a better supply of calcium and magnesium resulted in higher yields, which provided additional revenue per hectare: 78–322,54 €/ha for wheat and HUF 95,6–200,2 €/ha for maize, depending on the growing site.

Quick utilisation. Granulated fertiliser in perfect spherical shape. Unique quality. Its calcium and magnesium content covers the needs of any crop even in high yields. Immediate action and long lasting effect.

Its soil improver content are from mines in Hungary. It is not industrial waste or manufacturing by-product. Original Pannonian sediment. The soil improver active ingredient in Green Max is alkaline. It works very well for acidic soils in increasing soil pH, with the effects already showing in the first year of application. Other materials containing calcium, which are pH-neutral (gypsum, anhydride, anhydrite), do not improve the pH value of soil.

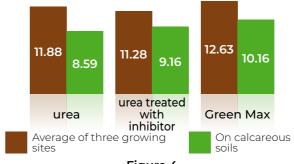


Figure 4

Yield advantage of Green Max

over urea in maize (t/ha)











ornamental plants

Do not jeopardise the Earth borrowed from our grandchildren!
Use our Green Max product!

GENEZIS

14



Replenishment of macronutrients and soil improvement at the same time!

Covers the nitrogen, calcium and magnesium needs of the plant and improves soil pH.

Green Max is a granular, mineral-based nitrogen fertiliser with soil improving properties, for supplementing nitrogen, calcium and magnesium at the same time. Whether arable or horticultural crops, vegetable or fruit crops, it will maximise the yield of your crops.

Advantages of our Green Max product:

- The soil improving active ingredient in Green Max is alkaline, so it is very **effective in increas**ing the pH of acidic soils.
- It raises soil pH in acidic soils and helps the uptake of calcium and magnesium in calcareous soils.
- Its calcium content contributes to the formation of a favourable soil structure, the formation of water-resistant soil crumbs, and thus to the **better water uptake of plants.**
- When used in the right dosage, it even covers the calcium and magnesium requirements of high yielding crops.
- Magnesium is also essential for the health of

- plant populations, stress tolerance and photosynthesis.
- It can increase the soil's phosphorus uptake by up to 20%, resulting in higher yields and improved crop quality.
- The finely ground dolomite ensures rapid utilisation of calcium and magnesium.
- Thanks to its large particle size, it can be applied with excellent dispersion to even a distance of over 24 m.
- Its almost perfectly spherical grains cause less abrasion to the metal parts of machinery; easy to adjust the spreading equipment to
- It does not fall within the scope of the precursor regulation.

Recommended use:

As a basal, starter and top dressing in all horticultural and arable crops.

A TOWN	ACTIVE INGREDIENT CONTENT		
	N	CaO	MgO
	15.9%	16.1%	11.6%

















grapes / fruit

plants



Genezis Green Max is a unique soil conditioner, an essential element of sustainable and environmentally friendly crop nutrition.

It is a new generation of nitrogen fertilisers where the focus is on protecting and maintaining soil structure and fertility. The active ingredient of soil improvement is dolomite, an ancient rock of unique composition and quality, dating back some 400 million years, which originates from the shores of Lake Balaton. With its nutrients, Green Max provides the nitrogen, calcium and magnesium needed for the dynamic growth and development of our plants, and improves their resistance. The soil improver used in its production has a very small particle size (20–40 μ m), which allows it to be quickly absorbed into the soil thanks to its high specific surface area.

It improves soil structure, increases its nitrogen and phosphorus supplying capacity and stimulates life in the soil. This leads to higher yields and better crop quality.

Green Max nitrogen is the engine of growth. It needs to be replenished during the period of rapid growth following the early development period, and later during the fruit formation period. Leaf vegetables that develop large green mass have particularly high nitrogen demand – lettuce, spinach, radish, Chinese cabbage, kohlrabi, leeks, parsley –, but tomatoes, cucumbers, peppers, melons and potatoes also need significant amounts during growth (Table 3). Some fruit trees, such as peach, plum, sour cherry, apple trees and berries also have high nitrogen demand (Table 4).

	Bell peppers/ tomatoes	Peas/beans	Root vegetables	Cabbages	Onions
Immediately before or at the same time as sowing, planting	25–30 g/m2	30-45 g/m2	30-45 g/m2	40-45 g/m2	45–55 g/m2
Top dressing	50-65 g/m2 at least 2 doses after the binding of the first clusters	-	30-40 g/m2	40-45 g/m2 must be com- pleted 1 month before harvest, in at least 2 parts	20–25 g/m2 at bulb devel- opment

Table 3: Recommended use in vegetables

	Pome fruits	Stone fruits	Berries
Before fruit setting	25-30 g/m2	25–30 g/m2	-
I fruit-bearing plants	50-60 g/m2	40-55 g/m2	30-35 g/m2

Table 4.: Recommended use in fruits

Nitrogen is mostly stored in the leaves and fruits. Its uptake is highest during the period of intensive annual growth and fruit development.

The nitrogen content of Green Max is gradually absorbed by the plants through transformation processes in the soil, minimising the nitrate load on the environment and supplying nitrogen to plants for longer than other products.



The calcium and magnesium content of Green Max makes it an excellent choice, especially for crops with high lime and magnesium demand, such as apples, pears, plums, peaches, potatoes, peas, other horticultural crops, herbs and ornamental plants. The calcium content of Green Max prevents apples from bitter pitting and improves their shelf life. Increased attention should be paid to replenishment in the first half of the growing season. In addition, our vegetable plants need calcium supply from the seedling stage to ensure good root development. The magnesium content in Green Max, together with nitrogen, provides the beautiful green colour of our plants, as this element is the core atom of the green pigments (chlorophyll). Green Max is easy to work with; it is an almost perfectly spherical granulate that can be precisely dosed and is easy to spread.





GENEZIS GREEN MAX GENEZIS PÉTISÓ+S



20

General features: Granular, easy to spread fertiliser containing nitrogen, high levels of calcium and magnesium, produced in almost perfectly spherical, hard grains.

Recommended use: As basal, starter and top dressing in a dose of 200–1,200 kg/ha, based on the plant needs, the nutrient content of the soil, according to expert advice. Nitrogen fertilisation with divided doses according to the growth rate of the plant not only increases yield quantity and quality, but also improves nitrogen utilisation.

Advantages of the product: As it reduces soil acidity and increases soil pH, it is an excellent choice for acidic soils, soils prone to acidification and soils with magnesium deficiency. It not only supplies nitrogen but also helps to meet the plant's calcium and magnesium needs. It is suitable for nourishing the plant and improve the pH of acidic soil in a single application. Where applied in the right dose, in addition to the nitrogen demand it covers the magnesium and calcium needs for 10 t/ha of maize or 4 t/ha of sunflower or 4 t/ha of rapeseed or 9 t/ha of wheat. Its grains are easy to spread, and can be evenly distributed.

Recommended crop: All arable and horticultural crops, for basal, starter and top dressing.

ACTIVE INGREDIENT CONTENT			
N	CaO	MgO	
15.9%	16.1%	11.6%	















General features: Granular, easy to spread fertiliser containing nitrogen, sulphur and calcium, with high grain stability.

Recommended use: As basal, starter and top dressing in a dose of 100–600 kg/ha, based on the plant needs, the nutrient content of the soil, according to expert advice. Nitrogen fertilisation with divided doses according to the growth rate of the plant not only increases yield quantity and quality, but also improves nitrogen utilisation.

Advantages of the product: Due to its sulphur content, it is excellent for eliminating sulphur deficiency and for fertilising crops with high sulphur demand (e.g. oilseed crops). It is suitable for replenishing nitrogen and sulphur at the same time. Sulphur increases oil content, helps nitrogen integration, improves overall plant health, stress tolerance, stem strength, nutritional values (baking quality, protein content, digestibility, gluten content). It has a uniform particle size distribution, hard grains, which are easily spread over long distances

Recommended crop: All arable and horticultural crops.

ACTIVE INGREDIENT CONTENT		
N	SO₃	CaO
24%	12%	9%













Although nitrogen is present in Pétisó also as ammonium nitrate, there is a not so insignificant difference.

During the production of Pétisó, dolomite is added to the ammonium nitrate melt, which is first ground very finely in a special "dolomite mill". The average particle size of the finely ground material produced from chipping is <40 μ m. This is extremely high specific surface area, which serves as a high quality pH buffer.

Unlike Pétisó, ammonium nitrate has a very high lime index (expressing its acidifying effect) and 60 kg of additional lime (calcium carbonate equivalent) must be also applied to compensate for the acidifying effect. Buying a granulated liming material of a quality that can be used in a fertiliser spreader, and applying it in a separate operation is a very expensive solution. The cost of fertilising with lime is nowadays equivalent to the cost of fertilising with Pétisó.

Ammonium nitrate is a fertiliser with one active ingredient.

Although the nitrogen content of Pétisó is 27%, it increases to 39% thanks to the dolomite it contains, and provides the supply of 3 macronutrients (nitrogen, calcium, magnesium) at the same time. Calcium and magnesium are essential nutrients for plants, in addition to their soil-improving properties. These benefits are not available when ammonium nitrate is used.

In addition to its aggressive acidifying action, there is a greater risk of leaching or volatilisation of the nitrogen content.

This means not only significant loss for the farmers, but also serious environmental load on groundwater and the atmosphere (nitrate leaching, ammonia volatilisation).



ALSO, Ammonium nitrate is subject to ADR, as it is an explosive product!

In this case, the cheaper solution actually costs us a lot!

Don't let the precious active ingredient,

nitrogen, go to waste!

Replenish three main nutrients at the same time! Use Pétisó!



- State-of-the-art production technology
- Over 93 years of experience in production
- Hungarian product
- ✓ 100% guarantee





NITROGEN FERTILISERS

GENEZIS AMMONIUM NITRATE

General features: Prilled product, recommended for calcium-rich, neutral or slightly alkaline soils. Suitable for basal and starter fertilisation, and top dressing. Quickly dissolves in water and excellent for late top dressing due to its particulate matter formation.

Recommended use: To be applied in a dose of 100 to 500 kgs/hectare as basal, starter and top dressing as per crop requirements and professional advice.

Advantages of the product: Contains nitrogen in the form of ammonium and nitrate for easy uptake by plants.

Recommended crop: Recommended for all arable and horticultural crops.

ACTIVE INGREDIENT CONTENT			
N	NH ₄	NO₃	
34%	16.8%	17.2%	















GENEZIS UREA



General features: An excellent prilled basal and top dressing, ideal for mainly airy soils rich in calcium and with an intense microbiology. Its amide-nitrogen provides a longer effect, so it is also suitable for early top dressing.

Recommended use: 100 to 400 kgs/hectare as basal and top dressing as per crop requirements and professional advice. Due to the inhibitory effect on germination, application should be made 10-12 days before sowing, and it must be worked into the soil.

Advantages of the product: Nitrogen fertiliser with the highest concentration. The amide-bound nitrogen slows down its release making it capable of supplying nitrogen for longer periods of time. It dissolves perfectly in water.

Recommended crop: Recommended for all arable and horticultural crops.

ACTIVE INGREDIENT CONTENT

46%











GENEZIS NS 21: 24



General features: Excellent compacted basal and top dressing. Popular composition. A fertiliser with high sulphur content to meet special needs. Hygroscopic fertiliser that dissolves in water quickly and

Recommended use: Particularly beneficial for crops with a high sulphur demand (e.g. brassicales, oily plants) in sulphur-deficient areas. 100 to 400 kgs/hectare as basal and top dressing as per crop requirements and professional advice. Can be used for top dressing of winter wheat and winter swede rape in early spring.

Advantages of the product: Contains nitrogen as well as sulphur, therefore, it is excellent to increase protein, gluten and oil content and improve baking quality and digestibility. Its sulphur content increases crop resilience and builds stem strength.

Recommended crop: Recommended for all arable and horticultural crops.

ACTIVE INGRED	ACTIVE INGREDIENT CONTENT							
N	S							
21%	24%							



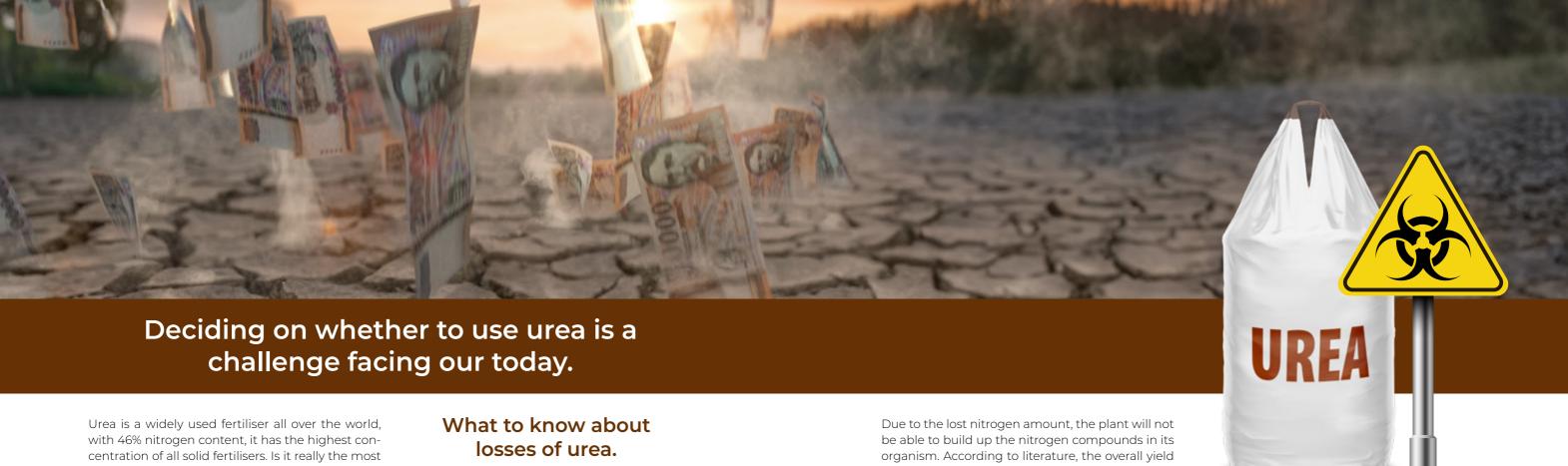












obvious solution for nitrogen replacement? Is it as cheap and effective as we thought before? Unfortunately not. Farmers using urea face a number of challenges, both from an efficiency and economic and from an environmental point of view.

Urea is a slow-acting nitrogen fertiliser that is actually impossible for the plant to take up directly through the root. First it must first be converted and it takes time: 2 weeks in warm soil and 6 weeks in cold soil. This is why the rate of nitrogen release is unpredictable, as it is highly dependent on the current weather conditions, making the scheduling of application hard to plan, and therefore adjusting to the nutrient uptake dynamics of plants becomes almost impossible. It is unsuitable as starter fertiliser because the ammonia formed from urea in the first step has a germination-inhibiting effect. It is unsuitable for top dressing and additional fertilisation because urea is a slow-acting

nitrogen fertiliser and can only be taken up by the plant after transformation. Ammonia is generated during the process, it escapes on contact with air causing a loss of nitrogen, which is then not available to the plant, and also pollutes the environment. Even under normal conditions, 13.1% of the 46% nitrogen content of urea evaporates.

During prolonged periods of sunshine, drought or when urea is not worked into the soil for extended periods, nitrogen evaporation in the form of ammonia increases significantly. This loss can be as high as 70%, which means that only 13.8% of the 46% nitrogen active ingredient remains. In waterlogged soils, nitrogen gas evaporation due to denitrification is increased, which also causes

will be reduced by 10-20%, which is supported by our experiments.

The loss could be as much as 70-85% of inputs, which is worth taking into account. In addition, its lime index, which is a measure of its acidifying effect, is high. In the case of urea, the application of 100 kg of liming agent (calcium carbonate equivalent) is necessary to counteract the acidifying effect of 100 kg of urea.

The question is: what are the benefits of using Pétisó, a MAS-type fertiliser, instead of urea? The answer is obvious. Due to its dolomite content, Pétisó does not further acidify the soil, and it supplies not one but three macroelements at the same time: nitrogen, calcium and magnesium. The nitrate-nitrogen content of Pétisó can be utilised by plants almost immediately.

available for the plants to uptake, can be stored in the soil for a short time, and then absorbed by the plant after it is transformed to nitrate.

Its ammonium nitrogen content, although directly

This means a much better nitrogen utilisation than that of urea, which clearly serves as the economic solution.

In this case, the cheaper solution with a lower unit price of the active ingredient actually costs us a lot! Don't let the precious active ingredient, nitrogen, go to waste! Use Pétisó!



State-of-the-art production technology

Over 93 years of experience in production

Hungarian product

100% guarantee







WHAT YOU NEED TO KNOW ABOUT

THE USE OF UREA



We produce it for the industrial sector as an adhesive base, but we do not recommend it for use in agriculture.



When urea is used in the autumn, depending on precipitation and temperature, 50–70% of the active ingredient leaches or evaporates from the soil.





Urea becomes suitable for taking up by plants slowly, and it also acidifies the soil, reducing its productivity.

Urea is not the fertiliser to be used by your children and grandchildren.









GENEZIS NITROSOL PRODUCT LINE

General features: Nitrosol is a factory- produced urea ammonium nitrate solution (UAN) with a density of 1.3 g/cm³ (NITROSOL 30% N). All members of the product line also contain nitrogen in crops. For cereals and rapeseed, a dose the form of amide, nitrate and ammonium, which are also effective through the leaves. Our sulphurous NITROSOL is also available to add nitrogen and sulphur at the same time. Suitable for basal and starter fertilisation, and top dressing. It does not drain out. It is also excellent as an irrigation fertiliser. Also available with zinc, copper, boron and magnesium supplementation!

Recommended use: A field spreader with a nitrosol nozzle is required. Do not apply in the early morning or during the midday heat. Its use is recommended after 6 pm, in cloudy and calm weather. The addition of a wetting agent is proand stem hardeners, but a mixing test is always must be reduced to 1.5-2.0 bar.

30

required. Sulphur-containing NITROSOL is mainly recommended for fertilising oilseed crops or for sulphur-deficient of 300-400 kg/ha can be applied without dilution until the end of tillering (late winter, early spring). At the start of stalk growth (cereals and rapeseed), the recommended dose is 100-150 kg/ha with 1:1 dilution. In mid-April, 80-150 kg/ha may be applied with a dilution of 2-3: 1, depending on heat and light conditions. Temporary scorching of 2–3 mm. may occur in cereals, however, this is outgrown by the crop in approx, one week, after which the crop becomes greener and more developed. For maize and sunflower, it may only be applied as a basal dressing fertiliser or with a nutrient cultivator at a dose that meets the current nitrogen requirements of hibited. It can be mixed with most herbicides the crop. The operating pressure of the spreader

GENEZIS NITROSOL PRODUCT LINE

Advantages of the product: Uniform dispersion, homogeneous active ingredient distribution, evenly growing crops. It requires less thorough irrigation to take effect. It also exerts its effect via leaves and soil. Its use as a foliar fertiliser in wheat improves quality.

Recommended crop: Oily plants (rapeseed, sunflower), cereals, maize.

ACTIVE INGREDIENT CONTENT								
Nitrosol 30% N	30 kg N/100 kg							
Nitrosol 30+Zn+Cu	30 kg N + Cu+Zn/100 kg							
Nitrosol 20+4S	20 kg N + 4 kg S/100 kg							
Nitrosol 16+6S	16 kg N + 6 kg S/100 kg							













RECOMMENDATION FOR FERTILISER APPLICATION

Fertiliser quantities in the table are for information purposes only! Exact recommended composition and quantities are determined on the basis of expert advice and soil test results!

	APPLICATION OF NITROGEN FERTILISERS ON MAJOR ARABLE CROPS						
	Activ requir		redier the c		Autumn nitrogen basal dressing		Fertiliser need (kg/ha)
Plant	crop (t/ha)	N	P ₂ O ₅	K ₂ O	fertiliser, if the use of a complex fertiliser is not recommended	Spring nitrogen basal and top dressing	Depending on the nutrient supply of the soil
						Genezis Pétisó 27N+7CaO+5MgO	450–600
					In autumn, a maximum of	Genezis Green Max 15.9N+16.1CaO+11.6MgO	800–1000
					35–40 kg/ha of nitrogen	Genezis Pétisó+S 24N+12SO₃	500–700
Rapeseed	4–5	170	60	80	may be applied as a basal	Genezis NS 21: 24	350–500
					dressing fertiliser to avoid	Genezis Ammonium nitrate 34N	450–550
					over-development.	Genezis Nitrosol 30N	650–850
						Genezis Nitrosol 20N +4S	450–800
						Genezis Pétisó 27N+7CaO+5MgO	400–500
						Genezis Green Max 15.9N+16.1CaO+11.6MgO	700–850
						Genezis Pétisó+S 24N+12SO ₃	450–550
Winter wheat	8–9	170	70	40	Maximum one third of the total nitrogen	Genezis Ammonium nitrate 34N	350–400
Wileat					demand	Genezis Karbamid 46N	250–300
						Genezis NS 21: 24	550–650
						Genezis Nitrosol 30N	350–450
						Genezis Nitrosol 20N +4S	600–700
						Genezis Pétisó 27N+7CaO+5MgO	300–400
					Marriagrama	Genezis Green Max 15.9N+16.1CaO+11.6MgO	650–750
Winter	7–8	120	60	60	Maximum one third of the	Genezis Pétisó+S 24N+12SO ₃	400–500
barley	, 0	120	00	00	total nitrogen demand	Genezis Ammonium nitrate 34N	250–350
						Genezis Karbamid 46N	200–250
						Genezis Nitrosol 30N	300–400
						Genezis Pétisó 27N+7CaO+5MgO	400–550
					One third of	Genezis Green Max 15.9N+16.1CaO+11.6MgO	750–900
Triticale	7–9	150	70	40	total nitrogen demand	Genezis Pétisó+S 24N+12SO₃	500–600
					uerildilu	Genezis Ammonium nitrate 34N	350–400
						Genezis Nitrosol 30N	400–500

Table 5

	APPLICATION OF NITROGEN FERTILISERS ON MAJOR ARABLE CROPS							
	Activ requir		redier r the c		Autumn nitrogen basal dressing		Fertiliser need (kg/ha)	
Plant	crop (t/ ha)	N	P ₂ O ₅	K₂O	fertiliser, if the use of a complex fertiliser is not recommended	Spring nitrogen basal and top dressing	Depending on the nutrient supply of the soil	
						Genezis Pétisó 27N+7CaO+5MgO	450–600	
N 4-1						Genezis Green Max 15.9N+16.1CaO+11.6MgO	800–1000	
Maize and	10–12/	170	60	70	Only in spring	Genezis Pétisó+S 24N+12SO ₃	550–700	
sweet corn	20–24	170	00	70	Offig in spring	Genezis Ammonium nitrate 34N	400–500	
						Genezis Karbamid 46N	300–350	
						Genezis Nitrosol 30N	400–550	
						Genezis Pétisó 27N+7CaO+5MgO	200–300	
						Genezis Green Max 15.9N+16.1CaO+11.6MgO	350–500	
Sunflower	4–5	85	50	70	Only in spring	Genezis Pétisó+S 24N+12SO₃	250–350	
Sumower	1 3	03	30	70		Genezis Ammonium nitrate 34N	150–250	
						Genezis Karbamid 46N	100–180	
						Genezis Nitrosol 30N	150–280	
						Genezis Pétisó 27N+7CaO+5MgO	250–370	
						Genezis Green Max 15.9N+16.1CaO+11.6MgO	450–600	
Spring	6–7	100	60	60	Only in spring	Genezis Pétisó+S 24N+12SO₃	300–400	
barley	0 /	100	00	00	Orny m spring	Genezis Ammonium nitrate 34N	200–290	
						Genezis Karbamid 46N	150–210	
						Genezis Nitrosol 30N	200–300	
						Genezis Pétisó 27N+7CaO+5MgO	250–370	
Sugar	40–60	100	90	160	Only in spring	Genezis Green Max 15.9N+16.1CaO+11.6MgO	450–600	
beet	10 00	100	30	100	ony mopring	Genezis Pétisó+S 24N+12SO₃	300–400	
						Genezis Ammonium nitrate 34N	200–290	
						Genezis Pétisó 27N+7CaO+5MgO	400–500	
Potato	40–60	140	60	150	Only in spring	Genezis Green Max 15.9N+16.1CaO+11.6MgO	750–875	
				.50	2, 559	Genezis Pétisó+S 24N+12SO₃	500–580	
						Genezis Ammonium nitrate 34N	350–400	
						Genezis Pétisó 27N+7CaO+5MgO	250–290	
Soy	3.5–4	80	60	80	Only in spring	Genezis Green Max 15.9N+16.1CaO+11.6MgO	400–500	
					3 1,9	Genezis Pétisó+S 24N+12SO₃	250–330	
						Genezis Ammonium nitrate 34N	180–235	

^{*} subject to medium or higher supply of nutrients

RECOMMENDATION FOR FERTILISER APPLICATION

Fertiliser quantities in the table are for information purposes only! Exact recommended composition and quantities are determined on the basis of expert advice and soil test results!

SETTING PARAMETERS FOR SULKY FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS PÉTISÓ FERTILISERS								
		Sulky DP	X24/PRIMA/70	DANS/605/805	5/1155			
Name of				Sulky DP	(28 /DX30/DX	30+		
Genezis fertiliser	Progress speed	Spraying blade 18–24	Spre	eading width	18 m	Spraying blade 12–28 /18–28		
		Set value of spraying width	Set value of spraying quantity			Set value of spraying width		
			300 kg/ha	350 kg/ha	400 kg/ha			
	8 km/h		20	21	23			
Prilled Pétisó	10 km/h	117	22	24	26	115		
	12 km/h		25	27	30			
Granulated	8 km/h		21	23	25			
Pétisó/ Green Max/	10 km/h	121	24	26	28	119		
Pétisó+S	12 km/h		27	29	32			

Table 6

34

SETTING PARAMETERS FOR AMAZONE FERTILISERS SPREADER FOR GENEZIS NITROGEN FERTILISERS									
			Work wi	dth 18 m			Work wi	dth 24 m	
Name of Genezis	Progress	Spade		sition for he quantit	_	Spade		sition for s he quantit	
fertiliser	speed	position	300 kg/ha	350 kg/ha	400 kg/ha	position	300 kg/ha	350 kg/ha	400 kg/ha
		Sį	oraying dis	sk OM 18–2	24	Sį		sk OM 18–2	24
Granulated	10 km/h		35	37.5	39		39.5	42.5	45
Pétisó/ Green Max/	12 km/h	24/47	38	40.5	43	24/48	43	46.5	49.5
Pétisó+S	14 km/h		40.5	43.5	46.5		46.5	50	54
	10 km/h		31.5	33.5	35.5	18/49	35.5	37.5	40
Prilled Pétisó	12 km/h	17/46	34	36	38		38	41	43.5
	14 km/h		36	39.5	41		41	43.5	46.5
	10 km/h		31.5	33.5	35.5		35.5	37.5	40
Ammonium nitrate	12 km/h	23/43	34	36	38	27/43	38	41	43.5
	14 km/h		36	38.5	41		41	43.5	46.5
		Sprayir	ng disk OM	18–24		S	oraying dis	sk OM 18–2	24
Urea	10 km/h		35.5	38	40		40	43	46
Olea	12 km/h	16/45	38.5	41	43.5	15/48	43.5	47	50.5
	14 km/h		41	44	47		47	51	55

Table 7





Seeds from Genezis

Genezis Partner Network offers its customers a unique range of cereal and hybrid seeds. Our nationwide network with more than 50 sales representatives-counsels helps our partners manage their farming effectively.

Why choose us?

- Seeds of the most competitive varieties and hybrids in all arable crops
- Seeds of outstanding utilisation and quality
- · Counselling on varieties and agrotechnics
- Favorable sales conditions
- Fast and accurate solutions in logistics









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Szilsárkány• 9312, outskirts lot number 0188/2 +36 30 350-8569

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www.genezispartner.hu





Genezis sales representatives have the best offers on seeds.

For more information, please contact the special advisors of the Genezis Partner Network or call our branch offices!

MOST EFFICIENT FERTILISER APPLICATION WITH THE NPK FROM SZOLNOK

The predecessor of Bige Holding Kft., Tiszamenti Vegyimuvek, started its operations in 1951, and soon became the dominant chemical industry centre of Hungary's Great Plain region. The factory underwent an extensive transformation in 2004. Following the greenfield investment, a new fertiliser plant began operation. Hungary's state-of-the-art NPK fertiliser factory has been producing compacted NPK products from the Genezis fertiliser product line since March 2004, thanks to the new, environmentally-friendly technology widely used in Western Europe, allowing the factory to reliably produce high-quality Genezis NPK, NP and PK fertilisers at a capacity of 140,000 tonnes per year. The fertiliser factory can produce virtually any composition for any order over 100 tonnes, which shows a unique flexibility in the market.

Fertilisers made with compaction technology are popular for their advantageous properties. Currently, this technology is spreading in Western Europe as well, as compacted NPK fertilisers are more traditional granular fertilisers!

The essence of the compaction technology is that after the homogenisation and milling of the containing them will dissolve much faster.

various NPK active ingredients, the mixture is pressed at high pressure, i.e. without a chemical reaction or drying process. The press cake produced in an environmentally friendly manner is then shredded, graded and made into a product with a particle size of 2–5 mm, which is surface treated to prevent sticking. As a result of the process, all the granules of the compacted Genezis NPK fertiliser from Szolnok are homogeneous, have the same active ingredient composition, and the physical properties of the granules are the same.

Benefits of using Genezis NPK: High quality raw production materials! Excellent solubility!

Due to the manufacturing technology, Genezis NPK fertilisers are much more soluble than conventional granular NPK preparations, even with lower levels of soil moisture.

A major advantage of Genezis compacted fertilisers over conventional granular NPK fertilisers is that the technology produces very finely granulated materials smaller than 100 micrometers. As a modern and effective preparations compared to result, a physical change takes place, due to which the specific surface area of the raw materials will be significantly larger and the fertiliser particles



The necessary active ingredients can be absorbed by the plants completely and at the right time, increasing their effectiveness. 95% water-soluble phosphorus, 100% watersoluble nitrogen and potassium content. The speed of the dissolution of

the compacted Genezis NPK fertilisers into water compared to hot granular fertilisers is clearly visible even when sprinkled into a glass of water! Excellent solubility even with less soil moisture, making it also ideal for spring use.

NPK 4: 24: 24 Before dissolution



NPK 4: 24: 24 Dissolution after 30 minutes





Precise applicability!

Uniform transverse dispersion ensuring that plants receive the same ratio and amount of active ingredient per square meter of arable land. Based on our own measurements, the transverse spread unevenness (CV%) of the physically mixed fertilisers was in all cases worse than the transverse spread unevenness of analogue Genezis NPK complex fertilisers, and also differed significantly from the dose originally set by calibration. The accepted EU standard is maximum 15%.

Spread unevenness (CV%) greater than this results in a measurable reduction in crop yield.

No fractionation!

Use Genezis compact NPK fertiliser with confidence, as this fertiliser rules out the possibility of the extremely detrimental phenomenon whereby one granule contains only one active ingredient and another granule contains only the other active ingredient. All particles are guaranteed to have the same composition, making nutrient distribution even and homogeneous!

In the case of physically mixed NPK fertilisers, separation of the particles during transport, storage and use is common, i.e. particles of larger size and density travel to the bottom of the bag and the fertiliser mass in the fertiliser spreader tank.

Therefore, the uniform application of the active ingredients is not feasible.

With a centrifugal spreader, the fertiliser application distance depends on the particle size and weight, therefore, even nutrient distribution is excluded based on the above. (Figure 5)

Figure 6 illustrates well the general defects of physically mixed fertilisers. According to the inscription on the bag of the product purchased, it was PK 10–30 fertiliser. According to the active ingredient amounts actually measured, it was PK 7.8–36.9. The buyer purchased a 3: 1 P: K ratio fertiliser and received a 4.7: 1 P: K ratio fertiliser.

When the product is spread, these ratios vary transversely, from one meter to the next, as shown in the figure, from 3.5:1 to 7.6:1.

Physically mixed fertilisers undergo objectively measurable significant segregation during fertiliser application and the original active ingredient compositions may show significant differences at different points of the plot, with a significant divergences in the ratios of the original active ingredient. The transverse dispersion clearly deteriorates and the adjusted doses need serious correction despite careful calibration.

Flexibly variable compositions with excellent physical properties.

The advantage of compacted fertilisers is that their grain size and solidity meet current European quality standards, while their environmental impact and dust content are minimal.

When spread, any dust that may be present comes from a very fine, powdery surface treatment material on the granules.

Maximum flexibility in compositions.

In Genezis NPK fertilisers, the NPK active ingredient content can be varied according to the individual needs of farmers, and it can even be enriched-with meso- and micronutrients. Due to all this, the NPK product range is extremely broad. Currently the Szolnok fertiliser factory offers 24 readymade products but, due to the rapid transition between the compositions, almost any combination of active ingredients can be produced in addition to these products.

It is often the case that, depending on the crop and the nutrient supply of the soil, farmers require a unique composition, which may mean different nutrient ratios or the addition of different micronutrients to products with an existing composition.

Dispersion of compacted complex and physically mixed fertilisers Comparison of dispersions

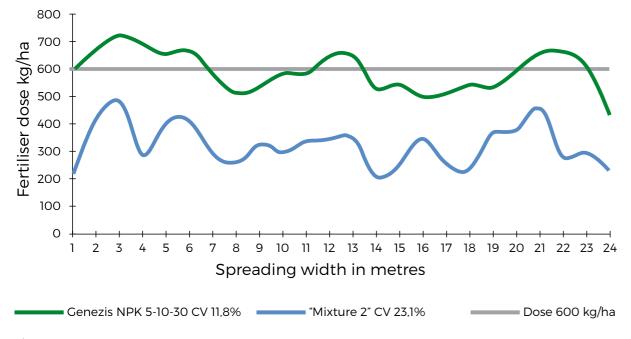


Figure 5

Active ingredient fractionation of a physically mixed fertiliser

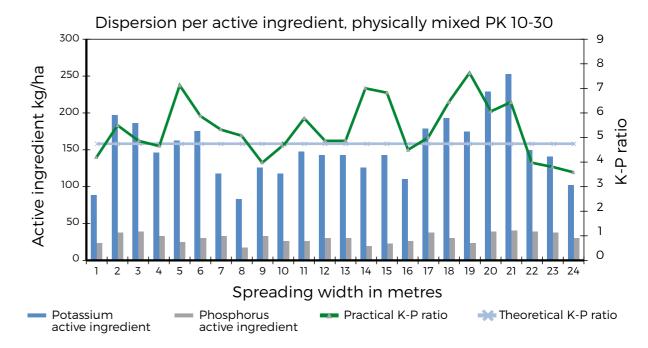


Figure 6

STARTER FERTILISER

STARTER FERTILISER

GENEZIS NP GOLD STARTER MICROGRANULATE



Accelerate initial development!

This product can be used to accelerate the initial development of germinating plants. When applied, the nutrient is placed directly alongside the seed, i.e. in the root zone of the germinating plant! With targeted fertiliser, you feed the plants directly, not the weeds between the rows.

Effective root formation!

Nitrogen and phosphorus absorbed after sprouting promote efficient root formation, which is also promoted by the micronutrient content of the fertiliser (B, Zn, Fe).

Improved water and nutrient uptake!

With stronger and more developed roots, the water and nutrient uptake of plants will be improved, improving and intensifying their growth.

Increased stress tolerance!

With a stronger root system, plants are more resistant to environmental stress, temperature fluctuations and lack of precipitation. The nutrient needs of modern, intensive, high-yield maize and sunflower hybrids significantly exceed those of the semi-intensive hybrids and varieties that were gen-

erally grown in the past. For these hybrids, the main breeding goal is early sowing and rapid early development vigour. Due to cool spring weather and low soil temperature, the nutrient supply capacity of the soil is limited (requiring a large amount of nitrogen and phosphorus that can be easily absorbed from the soil), resulting in delayed germination and slower initial development. In this case, the phosphorus supply capacity of the soil is low (there is already little phosphorus in the soil solution and at low temperatures, only a little phosphorus can be taken up from the soil by the plants), which is also indicated by maize plants showing anthocyanin discolouration on their leaves. Due to the relative lack of phosphorus, the plant cannot take advantage of its initial rapid developmental vigour, and even the more sensitive, initial developmental stages are prolonged, causing stress to the plant and a significant decrease in yield. Therefore, it is important to protect sunflowers and maize from variations in weather conditions, such as sudden cooling or rapid warming. The solution is microgranular starter fertilisation, which seeks to ensure strong root growth as well as rapid and even sprouting for the germinating plan, without adding clays that inhibit root formation in the immediate vicinity of the root. The Genezis Gold Starter NP microgranulate contains nutrients with excellent water solubility that plants can easily absorb. The recommended dose of Genezis Gold Starter NP microgranulate for application during sowing is 15-25 kg/ha. This product can be used to accelerate the initial development of plants. The nutrient is then placed directly alongside the seed. i.e. in the root zone of the germinating plant! With the targeted fertiliser, you feed the plants directly, not the weeds between the rows. Nitrogen and phosphorus absorbed after germination promote efficient root formation, which results in improved nutrient and water uptake by plants! We recommend its use on cold soils, in the case of early sowing or of cool weather after sowing.

ACTIVE INGREDIENT CONTENT								
N	P ₂ O ₅	В	Fe	Zn				
10%	48%	0.1%	0.3%	1%				





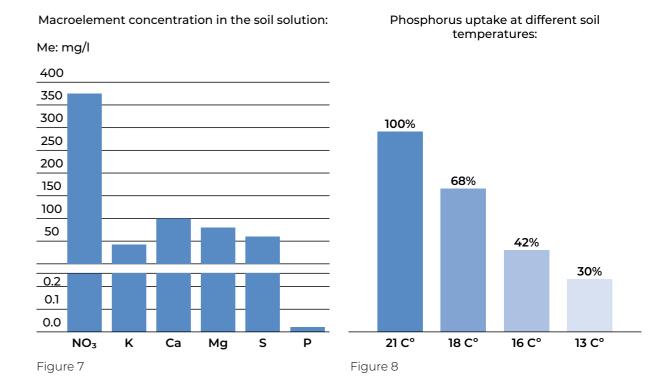








GENEZIS NP 10: 48 + 0.1 B + 0.3 Fe + 1.0 Zn



GENEZIS NP 15: 25 + 2.1 CaO + 10.8 S + 0.1 B + 0.02 Cu + 0.02 Fe



General features: Rich in sulphur, this basal and top dressing of excellent water solubility can be applied across the entire surface before or together with sowing at one go for winter and spring crops. The composition is suited to the nutrient requirements at the early stage of development.

Recommended use: It can be applied as basal dressing fertiliser before sowing and side dressing distributed with a seed drill using 100-150 kgs/hectare as per crop requirements.

Advantages of the product: In addition to phosphorus, nitrogen and sulphur, it also contains microelements that promote initial rapid development. Its sulphur and boron content promotes the rapid initial development and winter hardiness of oily plants and winter wheat. Its phosphorus content promotes dynamic tillering and crop growth. The micronutrient supplemented version helps prevent deficiency symptoms. Its active ingredients dissolve well in water, ensuring excellent utilisation. It is used for crops with a high sulphur need as a basal dressing for wheat and rapeseed in autumn and as a starter for sunflowers and maize in spring.

Recommended crop: Recommended for all arable and horticultural crops with a high sulphur need as autumn and spring basal and starter dressing.

ACTIVE INGREDIENT CONTENT								
N	P ₂ O ₅	CaO	S	В	Cu	Fe		
15%	25%	2.1%	10.8%	0.1%	0.02%	0.02%		















42

1:1 PHOSPHORUS: POTASSIUM RATIO NPK FERTILISERS

HIGH PHOSPHORUS NPK FERTILISERS

GENEZIS NPK 8: 15: 15 + 11.9 CaO + 2.6 MgO + 6.7 S + 0.05 B

General features: Starter dressing with a balanced amount of phosphorus and potassium for winter and spring crops and it contains all the six macronutrients that your plants need during vegetation. It has excellent solubility in water and contains nitrogen that helps accelerate the decomposition of autumn stalk residues.

Recommended use: For autumn and early spring basal dressing: 300-400 kgs/hectare as per crop requirements and professional advice. Its phosphorus content promotes dynamic tillering and crop growth, its potassium content increases winter hardiness, drought tolerance and stem strength of the plants.

Advantages of the product: High phosphorus content for the efficient basal dressing of crops with a high phosphorus demand. Its active ingredients dissolve well in water, ensuring excellent utilisation. Soil pH buffering effect on hardly acidic areas. Its sulphur and boron content promotes the rapid initial development and winter hardiness of oily plants and winter wheat, while its calcium content helps stabilize cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Recommended for all arable and horticultural crops as autumn and early spring basal dressing fertiliser.

ACTIVE INGREDIENT CONTENT								
N	N P ₂ O ₅ K ₂ O CaO MgO S B							
8%	15%	15%	11.9%	2.6%	6.7%	0.05%		











GENEZIS NPK 4: 24: 24 + 13 CaO



General features: A basal dressing fertiliser rich in phosphorus and potassium, with excellent water solubility, recommended for winter and spring crops with a high phosphorus and potassium demand to be applied on soils with average or less than average phosphorus and potassium content.

Recommended use: For autumn and early spring basal dressing: 300-400 kgs/hectare for cereals and rapeseed, 250-350 kgs/hectare around the base of spring crops as per crop requirements and professional advice. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance.

Advantages of the product: Balanced ratio of phosphorus and potassium. Excellent water solubility! Applied in autumn, its nitrogen content increases the efficiency of stalk residue breakdown and accelerates nutrient release. Basal dressing for crops with a high phosphorus demand.

Recommended crop: Rapeseed, winter and spring cereals, spring crops, maize, sweet corn, soya, peas, sunflower and horticultural crops with a high phosphorus and potassium demand.

ACTIVE INGREDIENT CONTENT							
N	P ₂ O ₅	K₂O	CaO				
4%	24%	24%	13%				











GENEZIS NPK 10: 20: 5 +14.3 CaO + 2.4 MgO +8.1 S



General features: A basal dressing fertiliser with high phosphorus, calcium and sulphur content and excellent water solubility developed for acidic soils with good potassium but low phosphorus supply, for nutrient replenishment of crops with a high phosphorus demand.

Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop requirements and professional advice. Its phosphorus content promotes dynamic tillering and crop growth.

Advantages of the product: High phosphorus content for fertilising crops with a high phosphorus demand. A basal dressing fertiliser for acidic soils due to its high calcium content. Its phosphorus content promotes dynamic tillering and crop growth. Its nitrogen content allows basal fertilisation under autumn grains in one pass and its sulphur content promotes the rapid initial development and winter hardiness of oily plants and winter wheat.

Recommended crop: Winter cereals and rapeseed, arable and horticultural crops with a high phosphorus demand.

ACTIVE INGREDIENT CONTENT							
N P ₂ O ₅ K ₂ O CaO MgO S							
10%	20%	5%	14.3%	2.4%	8.1%		











GENEZIS NPK 10: 20: 10 + 11.8 CaO + 8.1 S

General features: Compacted basal dressing fertiliser with calcium and sulphur, excellent water solubility, primarily developed for cereals on soils with less than average phosphorus and at least more than average potassium content.

Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop requirements and professional advice. Primarily developed for basal dressing of cereals.

Advantages of the product: Basal dressing fertiliser with excellent water solubility and high phosphorus and sulphur content. Composition is designed to suit the requirements of cereals. Its phosphorus content promotes dynamic root development and crop growth at a later stage. Its potassium content contributes to stem strength and winter hardiness and higher drought tolerance, while its concentrated sulphur content increases the amount of gluten and results in higher quality.

Recommended crop: Cereals, rapeseed and any other arable and horticultural crops with a high phosphorus demand.

ACTIVE INGREDIENT CONTENT								
N	P ₂ O ₅	K₂O	CaO	S				
10%	20%	10%	11.8%	8.1%				















NP AND NPK FERTILISERS

HIGH POTASSIUM NPK FERTILISERS

GENEZIS NPK 8: 16: 24 + 9.3 CaO +4.7 S

with a high potassium demand.

General features: A basal dressing fertiliser with excellent water solubility for row crops - a compacted fertiliser with increased phosphorus and high potassium content and sulphur to support early development on neutral and calcareous soils. An excellent choice for winter wheat on soils lacking potassium and for sunflower on

soils with less than average phosphorus supply and for other crops

Recommended use: For basal dressing of crops with a high potassium demand in autumn and early spring: 250-400 kgs/hectare for crops, 400-600 kqs/hectare for potatoes and sugar beet, as per crop requirements and professional advice.

Advantages of the product: A harmonious composition of nutrients to meet the nutrient requirements of row crops. Excellent water solubility! Its high potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance. Its elevated phosphorus content promotes rapid early development and crop growth at a later stage.

Recommended crop: Maize, sunflower, potato, sugar beet and any other arable and horticultural crop with a high potassium demand.

ACTIVE INGREDIENT CONTENT				
N	P ₂ O ₅	K₂O	CaO	S
8%	16%	24%	9.3%	4.7%











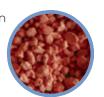


HIGH POTASSIUM NPK FERTILISERS

GENEZIS NPK 4: 17: 30 + 10.3 CaO



General features: A complex preparation with a unique composition and high calcium content specifically developed for basal dressing of maize. A complex fertiliser with excellent water solubility, which is the perfect choice for maize, sunflower or other crops with a high potassium demand especially on soils with average to good phosphorus and poor potassium supply.



Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare for maize, 200-350 kgs/hectare for other crops (cereals, sunflower, soya), 400-600 kgs/hectare for potatoes and sugar beet as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutritional needs of maize and sunflower. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem strength and higher drought tolerance, while its calcium content helps stabilize cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Maize, sunflower and any other arable and horticultural crop with a high potassium demand.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	CaO
4%	17%	30%	10.3%











Genezis NPK 5: 10: 30 + +9.4 CaO + 2.8 MgO + +2.9 S



General features: A universal, potassium rich basal dressing fertiliser for row crops, a compacted fertiliser containing all the macronutrients to help meet calcium, magnesium and sulphur demand in autumn and early spring. A complex fertiliser with excellent water solubility, which is an ideal choice for sunflower and other crops with a high potassium demand and for soils rich in phosphorus and lacking potassium.



Recommended use: For basal dressing of crops with a high potassium demand in autumn and early spring: 300-400 kgs/hectare for maize, 250-350 kgs/hectare for sunflower and soya, 400-600 kgs/hectare for potatoes and sugar beet, as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutrient requirements of row crops, however, it is also effective for the basal dressing of cereals and rapeseed in areas with potassium deficiency. Its high potassium content contributes to stem strength, winter hardiness, natural resistance and better drought tolerance, while its calcium content helps stabilize cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Maize, sunflower, rapeseed, potato, sugar beet and any other arable and horticultural crop with a high potassium demand.

ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K₂O	CaO	MgO	S
5%	10%	30%	9.4%	2.8%	2.9%













CHLORID-FREE NPK FERTILISERS

PK FERTILISERS

25 kg

GENEZIS PK 10: 20 + 18.3 CaO + 9.0 MgO

General features: A complex fertiliser with excellent water solubility and high calcium and magnesium content. The product has been developed for the autumn basal dressing of spring crops in an eco-friendly way especially for soils with less than average potassi-

Recommended use: For basal dressing in autumn and early spring, 300-500 kgs/hectare as per crop requirements and professional advice.

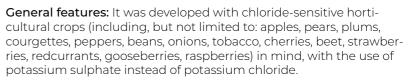
Advantages of the product: Excellent water solubility! Its high amount of lime and dolomite (calcium, magnesium carbonate) improves soil quality. If applied under spring crops in autumn, it avoids overloading soils with nitrate. It improves soil quality by reducing acidity so it is highly recommended on acidic soils.

Recommended crop: Any arable and horticultural autumn or spring crop.



GENEZIS NPK 11: 11: 18 + 16.2 S + 0.05 B + 0.05 Fe + 0.1 Mn + 0.02 Zn

Packaging: 25 kg bag, 700 kg Big Bag.



Advantages of the product: Can be used immediately before sowing or planting, as its chloride- free composition eliminates the negative effects of chlorine on germination.

Recommended use: Suitable both for basal dressing and top dressing. In horticultural crops: Application of 250-500 kg/ha (25-50 dkg/10 m²) is recom-

ACTIVE INGREDIENT CONTENT			
P ₂ O ₅	K₂O	CaO	MgO
10%	20%	18.3%	9.0%











GENEZIS PK 10: 28 + 14.3 CaO + 6.2 MgO



General features: A complex fertiliser with excellent water solubility



300-500 kgs/hectare as per crop requirements and professional advice.

magnesium for soils which are prone to acidification. If applied under spring crops in autumn, it avoids overloading soils with nitrate. Soil pH buffering effect on hardly acidic and acidic areas. A basal dressing fertiliser for areas involved in the AE target programme and nitrate sensitive areas.

Recommended crop: Any arable and horticultural autumn or spring crop.

No the same of			
ACTIVE INGREDIENT CONTENT			
P_2O_5	K ₂ O	CaO	MgO
10%	28%	14.3%	6.2%

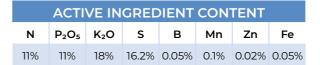












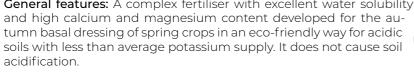
25kg











Recommended use: For basal dressing in autumn and early spring,

Advantages of the product: Excellent water solubility! Rich in calcium and



POLYSULPHATE HIGH SULPHUR AND LOW CHLORIDE NPK FERTILISERS

GENEZIS Kali+S Green



50

General features: It is not a simple potassium fertiliser as it not only contains 24% of sulphur trioxide but also calcium, and what is more, in a perfectly water-soluble form. It is recommended for supplying potassium and sulphur and adding calcium at the same time.

Recommended use: Autumn or spring KS basal dressing. Areas deficient in sulphur and crops with a high sulphur demand. 100–500 kgs/hectare depending on the nutritional requirement of the plant species, the nutritional properties and nutrient supply capacity of the soil. Fall fertiliser application is recommended for crops susceptible to chloride!

Advantages of the product: Excellent water solubility! It also contains calcium. The potassium and sulphur it contains are released gradually and washed out slowly allowing plants to make a better use of them and the way they are being leached is more consistent with the plant's dynamics of nutrient uptake than other traditional preparations. One macronutrient plus three secondary nutrients are included in a single product.

Recommended crop: Cereals, rapeseed, maize, sunflower, soya, oil pumpkin, sorghum, sweet corn, horticultural crops.

ACTIVE INGREDIENT CONTENT			
K₂O	SO₃	CaO	
37%	24%	8.5%	













Genezis suspension fertilisers are typically made by floating solid substances with a particle size of between 500 nm and 2 mm, which are applied during liquid fertilisation or by injection

onto or into the soil.

They are manufactured in a closed system with computer control. The sedimentation of the ingredients is slowed by frequent stirring and adding bentonite gel to the Genezis suspension.

Genezis suspension fertilisers are prepared in a number of compositions. We are able to flexibly change the composition to suit individual needs.

Safe application is important while using suspension fertilisers, i.e. use it as soon as possible after delivery! The great advantage of the liquid formula is that no moisture is needed to dissolve the fertiliser particles, resulting in better utilisation in drier weather conditions.

Another great advantage is that with proper calibration of the application equipment (spraying, injection) an even dispersion can be achieved, which is a great advantage in dense row cultures with a small growing area per plant.

The best types of application equipment are those equipped with a piston or gear pump and 40 stop plate nozzles.

Application can be combined with ground work and it is advisable to work the suspension into the soil immediately after application.

When application immediately after delivery is not possible, it can be stored for 3 to 5 days, but then it must be stirred every day.



GENEZIS NPK SUSPENSION FERTILISERS

GENEZIS NPK SUSPENSION FERTILISERS

Genezis NPK 18-7-7

General features: Due to its high nitrogen content, it is a basal dressing for soils with good phosphorus and potassium content. It is recommended for all field crops, primarily as an autumn basal dressing fertiliser for autumn cereals and rapeseed. In drier weather conditions, spring application is also worth considering.

Recommended crop: Autumn cereals, rapeseed and maize.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	
18%	7%	7%	









Genezis NPK 4-12-20

General features: A potassium-dominant suspension fertiliser high in active ingredients which, due to its composition, is an excellent basal dressing for maize, sunflower and rapeseed. Its active ingredient content is very effective even when applied in drier springs.

Recommended crop: Maize, sunflower and rape-

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	
4%	12%	20%	











Genezis NPK 7-21-7

General features: A liquid fertiliser with high phosphorus content, at least 95% of which is absorbed by the soil. It is an excellent basal dressing for soils with a lower than average phosphorus content and for wheat and other autumn cereals. Due to the suspension formula, it is also suitable for spring application (spring cereals) on soils well supplied with potassium.

Recommended crop: Primarily for cereals, but for any other crops as well.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	
7%	21%	7%	









Genezis NPK 10-10-12

General features: A preparation with a balanced content of active ingredients. Recommended for all field crops, as a general basal dressing fertiliser. In spring application, it is a basal dressing for sunflower and spring cereals.

Recommended crop: Primarily for row crops, but for any other plants as well. Sunflower, maize and spring cereals.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	
10%	10%	12%	











Genezis NPK 14-13-5 + 2 S

General features: A high quality liquid NP preparation with sulphur supplementation. It is a good choice for both basal and starter fertilisation, especially on soils with good or very good potassium supply. It can also be applied to the seed bed with suitable equipment.

Recommended crop: Winter cereals.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K ₂ O	S
14%	13%	5%	2%











Genezis NPK 6-10-15

General features: A suspension high in potassium. it is an excellent basal dressing for soy, maize and sunflower. We recommend it mainly for spring application, but you can also use it under rapeseed in autumn.

Recommended crop: Primarily soya, maize and sunflower, but for any other crops as well.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K₂O	
6%	10%	15%	











Genezis NPK 5.5-11-16.5 + 3 S

General features: A potassium-dominant suspension with significant amounts of phosphorus and sulphur. An excellent basal dressing for soybean, maize and sunflowers. We recommend it mainly for spring application, but you can also use it under rapeseed in autumn.

Recommended crop: Soya, maize, sunflower and rapeseed.

ACTI	VE INGRED	DIENT CON	TENT
N	P ₂ O ₅	K ₂ O	S
5.5%	11%	16.5%	3%











Genezis NPK 14-7-14

General features: An autumn basal dressing for soils with good or very good phosphorus content. Recommended for spring application under maize and sunflower. Its high nitrogen content transferred into the aqueous phase makes excellent use of it. even in drier weather conditions.

Recommended crop: Maize and sunflower.

ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K₂O			
14%	7%	14%			













RECOMMENDATION FOR FERTILISER APPLICATION

APPLICATION OF NPK FERTILISERS ON MAJOR ARABLE CROPS																									
	Active in	ngredie for the		quired		Fertiliser need (kg/ha)	Caving NDI/ boss		As a starter recommended																
Plant	crop (t/ha)	N	P ₂ O ₅	K ₂ O	Autumn NPK basal dressing fertiliser	Depending on the nutrient supply of the soil	Spring NPK basal dressing fertiliser	Starter fertiliser	dose (kg/ha)																
					GENEZIS Kali+S Green	300–400																			
					Genezis NPK 4: 24: 24	800–1000																			
Rapeseed	4–5	170	60	80	Genezis NPK 4: 17: 30 +10 CaO	500–700		Genezis Gold NP Starter Microgranulate	15–25																
Rapeseeu	4–5	170	60 6	80	Genezis NPK 5: 10: 30 + 9.4 CaO + 2.8 MgO + 2.8 S	350–500		NP 10: 48 + 1Zn+0.1B+0.3Fe	13-23																
					Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	450–550																			
					Genezis suspension NPK 4: 12: 20	650–850																			
					Genezis NPK 10: 20: 10 + 13.8 CaO + 2.1 MgO + 5.7 S	300–400																			
					GENEZIS Kali+S Green	100–400																			
					Genezis NP 15: 25 + 2.0 CaO + 10.8 S	250–350		Genezis Gold NP Starter																	
Winter wheat	8–9	170	70 40	70 40	70 40	70 40	70	70	70	40	Genezis NPK 4: 24: 24	250–350		Microgranulate NP 10: 48 + 1Zn+0.1B+0.3Fe	15–25										
																							Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	350–400	
					Genezis suspension NPK 9: 18: 9	350–400																			
					Genezis suspension NPK 7-21-7	350–400																			
					Genezis NPK 10: 20: 10 + 13.8 CaO + 2.1 MgO + 5.7 S	300–400																			
					GENEZIS Kali+S Green	100–400																			
							Genezis NP 15: 25 + 2.0 CaO + 10.8 S	400–500		Genezis Gold NP Starter															
Winter barley	7–8	120	60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	Genezis NPK 4: 24: 24	250–350		Microgranulate NP 10: 48 + 1Zn+0.1B+0.3Fe	15–25
																								Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	300–400
																			Genezis suspension NPK 9: 18: 9	550–650					
					Genezis suspension NPK 7-21-7	350–450																			
					Genezis NPK 10: 20: 10 + 13.8 CaO + 2.1 MgO + 5.7 S	400–550																			
					GENEZIS Kali+S Green	100–400																			
					Genezis NPK 4: 24: 24	500–600																			
Triticale	7–9	150	70	40	Genezis NP 15: 25 + 2.0 CaO + 10.8 S	350–400																			
					Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	400–500																			
					Genezis suspension NPK 9: 18: 9	250–300																			
					Genezis suspension NPK 7-21-7	250–300																			
					GENEZIS Kali+S Green	300–500		Genezis Gold NP Starter																	
					Genezis NPK 4: 24: 24	800–1000	If no NPK fertiliser was	Microgranulate NP 10: 48 + 1Zn+0.1B+0.3Fe	15–25																
Maize and	10-12/	170	60	70	Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	550–700	applied in autumn , NPK compositions and	141 10. 40 · 1211 · 0.1b · 0.3Fe																	
sweet corn	20–24	.70	00	70	Genezis NPK 4: 17: 30 +10 CaO	400–500	doses recommended for fall may																		
					GENEZIS PK 10: 20 + 14.20 CaO + 9.90 MgO	300–350	be used in the spring!	Genezis NP 15: 25 + 2.0 CaO + 10.8 S	100–150																
					Genezis suspension NPK 4-12-20	400–550																			

Table 8



^{*} subject to medium or higher supply of nutrients

Plant			redients r the cro			Fertiliser need (kg/ha)	Spring NPK basal	Chamban familia	As a starter recommended dose			
Plant	crop (t/ha)	N	P ₂ O ₅	K ₂ O	Autumn NPK basal dressing fertiliser	Depending on the nutrient supply of the soil	dressing fertiliser	Starter fertiliser	recommended dose (kg/ha)			
					GENEZIS Kali+S Green	250–500		Genezis Gold NP Starter				
					Genezis NPK 4: 24: 24	200–350	If no NPK fertiliser was			Microgranulate	15–25	
Sunflower	4–5	85	50	70	Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	200–350	applied in autumn, NPK compositions and	NP 10: 48 + 1Zn+0.1B+0.3Fe				
Sumower	4-5	03	30	70	Genezis NPK 4: 17: 30 +10 CaO	200–350	doses recommended for fall may be used in the					
					GENEZIS PK 10: 20 + 14.20 CaO + 9.90 MgO	250–350	spring!	Genezis NP 15: 25 + 2.0 CaO + 10.8 S	150–250			
					Genezis suspension NPK 4-12-20	200–350						
					Genezis NPK 10: 20: 10 + 13.8 CaO + 2.1 MgO + 5.7 S	250–370		Genezis Gold NP Starter				
					GENEZIS Kali+S Green	100–300	If no NPK fertiliser was applied in autumn,	Microgranulate	15–25			
					Genezis NP 15: 25 + 2.0 CaO + 10.8 S	300–400		applied in autumn,	NP 10: 48 + 1Zn+0.1B+0.3Fe			
oring barley	6–7	100	60	60	Genezis suspension NPK 7-21-7	200–290	NPK compositions and doses recommended for fall may be used in the spring!					
					Genezis NPK 4: 24: 24	150–210		Genezis NP 15: 25 + 2.0 CaO + 10.8 S	150, 250			
					Genezis NPK 8: 15: 15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	200–330			150–250			
					GENEZIS PK 10: 20 + 14.20 CaO + 9.90 MgO	250–300						
					GENEZIS Kali+S Green	300–600		Genezis Gold MP Starter	15–25			
· · · · · · · · · · · · · · · · · · ·	/0.60	100	00	100	Genezis NPK 5: 10: 30 + 5.4 CaO + 3.76 MgO + 3.1 S	450–600		Microgranulate NP 10: 48 + 1Zn+0.1B+0.3Fe				
Sugar beet	40–60	100	90	160	Genezis NPK 4: 17: 30 +5.2 CaO + 3.6 MgO	300–400		Genezis NP	100, 200			
					GENEZIS PK 10: 20 + 14.20 CaO + 9.90 MgO	200–290		15: 25 + 2.0 CaO + 10.8 S	100–200			
					GENEZIS Kali+S Green	400–700						
					Genezis NPK 4: 24: 24	750–875						
Potato	40-60	140	60	150	Genezis NPK 5: 10: 30 + 9.4 CaO + 2.8 MgO + 2.8 S	500–580						
					Genezis NPK 4: 17: 30 +10 CaO	350–400						
					GENEZIS PK 10: 20 + 14.20 CaO + 9.90 MgO	500–700						
					GENEZIS Kali+S Green	200–500		Genezis Gold MP Starter	15.05			
					Genezis NPK 8: 12: 25 +5 CaO + 5.7	400–500		Microgranulate NP 10: 48 + 1Zn+0.1B+0.3Fe	15–25			
Soy	3.5–4	80	60	80	Genezis NPK 4: 17: 30 +10 CaO	250–330						
					Genezis NPK 4: 24: 24	180–235		Genezis NP 15: 25 + 2.0 CaO + 10.8 S	100–200			
						GENEZIS PK 10: 20 + 14:20 CaO + 9:90 MgO	400–500		5. 25 2.0 64 6 10.0 5			

* subject to medium or higher supply of nutrients

SETTING PARAMETERS FOR SULKY FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS NPK FERTILISERS								
		Sulky DPX24/F	/1155					
Name of				Sulky	/ DPX28 /D	X30/DX30+		
Genezis fertiliser	Progress speed	Spraying blade 18–24	Sprea	ading width	18 m	Spraying blade 12–28 /18–28		
		Set value of spraying width	Set value	of spraying	quantity	Set value of spraying width		
			300 kg/ha	350 kg/ha	400 kg/ ha			
	8 km/h		23	25	27			
NPK 4-24-24	10 km/h	107	26	29	31	106		
	12 km/h		29	32	36			
	8 km/h		22	24	26			
NPK 0-10-20	10 km/h	106	25	28	30	104		
	12 km/h		28	31	34			
	8 km/h		23	25	27			
NPK 8-15-15	10 km/h	105	26	29	32	104		
	12 km/h		30	33	36			
	8 km/h		23	26	28			
NPK 5-10-30	10 km/h	101	27	30	33	100		
	12 km/h		30	34	37			

S	SETTING PARAMETERS FOR AMAZONE FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS NPK FERTILISERS									
			Work w	idth 18 m		Work width 24 m				
Name of Genezis	Progress	Spade	Bolt position	n for setting	the quantity	Spade	Bolt position	n for setting	the quantity	
fertiliser	speed	position	300 kg/ha	350 kg/ha	400 kg/ha	position	300 kg/ha	350 kg/ha	400 kg/ha	
			Spraying d	lisk OM 18–2	24		Spraying di	sk OM 18-24	4	
	12 km/h		38.5	41	43.5		43.5	47	50	
NPK 10-20-10	13 km/h 15/41	15/41	39.5	42.5	45	18/42	45	48.5	52.5	
	14 km/h		41	44	47		47	50.5	54.5	
	10 km/h	10 km/h	35	37	39		39	42	44.5	
NPK 0-10-20	1) km/h	12/38	37.5	40	42.5	16/45	42.5	45.5	48.5	
	14 km/h		40	43	45.5		45.5	49	53	
	12 km/h		38	40.5	43		43	46.5	49.5	
NPK 8-15-15	13 km/h	15/41	39	42	44.5	18/42	44.5	48	51.5	
	14 km/h		40.5	43.5	46.5		46.5	50	54	
	10 km/h		35	37	39		39	42	44.5	
NS 21-24	12 km/h	15/42	37.5	40	42.5	16/48	42.5	45.5	48.5	
	14 km/h		40	43	45.5		45.5	49	53	

Table 10

Table 9

58



Plant Protection Product Portfolio

Count on us!













One of the most important tools for quality plant nutrition today is foliar fertilisation.

No crop can be produced without the use of plant-specific foliar fertilisers that are dynamically adapted to the needs.

Genezis premium foliar fertilisers provide exactly what our plants need:

- Plant-specific composition. Macro and microelement content adapted to the needs of the crop.
- Commitment to the use of chelating agents. Using a chelated formula to promote efficient micronutrient uptake.

- **High quality plant nutrition and excellent stress relief** with our biostimulant "BS" products, which are eligible for the AÖP (Agro-ecological) programme.
- They are chloride-free. With rapid absorption they often provide an immediate effect, visible to the eye.
- They can be applied at the same time with pesticides.
- They fit with the plant-specific plant nutrition technologies of Genezis.

A wide range of products, complete solutions containing macro and micronutrients, mono and polymetal chelates, biostimulant foliar fertilisers – all serving plant nutrition by Genezis.

GENEZIS PLANT CONDITIONER PRODUCTS

GENEZIS CEREALS BS

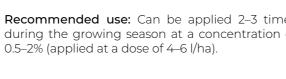
General features: Plant conditioner product A composite preparation with high active ingredient content for foliar fertilisation of arable crops and cereals, from tillering to earing.

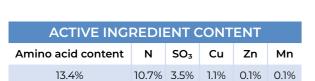
It has a positive effect on the natural life processes of the plant. Its application has a positive effect on the quantity and quality of the crop. It is a chloride-free, instant effect foliar fertiliser. When applied in the autumn, it enhances winter hardiness, helping to regenerate weakened crops in early spring. Improves drought tolerance.

It improves the stress resistance of plants.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of

















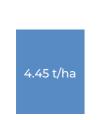


WHEAT FOLIAR FERTILISER EXPERIMENT, HEVES 2019

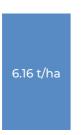
nutrient supply (in our case: NPK = 135/36/36), the use of foliar fertilisers and especially biostimulators pays off, allowing economical production. In our experiment, used alongside amounts of 1.71 and 1.87 of foliar fertiliser, the bio stimulator result-

Stress caused by water shortage, with adequate ed in an additional yield of 2.23 t/ha compared to the control treatment without foliar fertilisation. Rational product selection that adapts to the place of production and technology, in this case the bio stimulator, is the most profitable investment even in dry years.

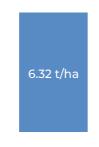
Treatments (5 April and 12 May) and results:



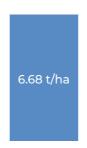
Control (without foliar fertiliser, NPK only)



2. Genezis Cereals 5 I/ha + Genezis Cereals 5 I/ha



Genezis Nitrospeed 5 l/ha + Genezis Mikromix A Cereals 5 I/ha



Genezis BS Cereals 5 I/ha + Genezis BS Cereals 5 I/ha

Figure 9

64



GENEZIS MIKROMIX BS



General features: A high active ingredient preparation for foliar fertilisation of maize and other zinc-intensive plants. These amino acid products replenish the amino acid reserves of plant cells, making protein synthesis faster and more efficient. It improves the stress resistance of plants. It has a positive effect on the natural life processes of the plant. Its application has a positive effect on the quantity and quality of the crop. It is a chloride-free, instant effect foliar fertiliser.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 3-6 l/ha). It improves nitrogen uptake efficiency, and promotes protein and oil formation. By applying it, the nutrient uptake from the soil can be increased.

ACTIVE INGREDIENT CONTENT							
Amino acid content	N	SO ₃	Zn				
14%	1.3%	4.2%	3.5%				











GENEZIS PLANT CONDITIONER PRODUCTS

GENEZIS OILSEED CROPS BS

Recommended use: Crops with a high boron need, recommended for the treatment of, e.g., rapeseed and sunflower. As a foliar fertiliser in a dose of 4-6 litres/ ha, mixed with 250-300 litres of water.

General features: A high active ingredient preparation for foliar fertilisation of oilseeds and other boronintensive plants. These amino acid products replenish the amino acid reserves of plant cells, making protein synthesis faster and more efficient. It improves the stress resistance of plants. It has a positive effect on the natural life processes of the plant.

	Ø	
		,

ACTIVE INGREDIENT CONTENT							
Amino acid content	N	MgO	В				
13.5%	10.4%	4%	1.2%				

66

















GENEZIS NITROSPEED BS

General features: A liquid fertiliser solution with a high nitrogen content, including sulphur, magnesium and amino acids. Most of the nitrogen content can be taken up immediately through the leaf, with a smaller portion thereof being a slower- acting form of nitrogen.

ACTIVE INGREDIENT CONTENT								
Amino acid content	N	SO ₃	MgO					
5.7%	18%	4.1%	2.1%					











P ₀	5

	RECOMMENDED USE OF GENEZIS NITROSPEED BS				
Crop	Recommended dosage as supplementary top dressing	Recommended dosage as foliar fertiliser	Recommended application		
Cereals	15–25 l/ha	5 l/ha	From the start of tillering		
Cereals		5 l/ha	When the flag leaf expands		
Danasaad	15–25 l/ha	5 l/ha	At the rosette stage		
Rapeseed		5 l/ha	Hidden yellow bud stage		
Maize	15–25 l/ha	5 l/ha	At the 4–6 leaf stage		
Maize		5 l/ha	At the beginning of tasselling		
Sunflower	15–25 l/ha	5 l/ha	At the 5–6 leaf stage		
Surmower		5 l/ha	Until starbud stage		
Sugar beet	15–25 l/ha	5 l/ha	4–6 leaves		
Sugar beet		5–7 l/ha	At row closure		
•		5			



GENEZIS FOLIAR FERTILISERS

GENEZIS MAIZE FOLIAR FERTILISER

Intensive arable crop production, increasing yields, declining organic fertilisation, unilateral and highdose NPK fertilisation of soils, have also drawn attention to the need for foliar fertilisation on arable land. In our experience, in large maize-growing areas of the country, zinc has simply become depleted in a significant proportion of soils, but sulphur is also depleting in intensively grown oilseed crops, especially rapeseed and, in general, magnesium and manganese are also decreasing almost everywhere. Recent years have been brought significant development in this area. Today, the use of plant-specific foliar fertilisers has also become part of intensive field technologies. The choice is

extremely broad. Even for micronutrient-containing materials, there is a wide choice of products containing simple saline solutions, suspension solutions and products containing mono- and polymetallic chelates. Our company is committed to using chelating agents. Our experiments prove that we are on the right track. The micronutrient uptakepromoting formula, the EDTA chelating agent, presents the microelements in the form that is most easily absorbed by plants. Our foliar fertilisers harmonise perfectly with the plant and landscape-specific Genezis plant feeding technologies. They are chloride-free, take effect instantly and can be applied together with pesticides.





GENEZIS CEREALS FOLIAR FERTILISER



General features: A preparation with a high active ingredient content and micronutrients specially developed for cereals. Recommended for the foliar fertilisation of arable crops, especially cereals, from tillering to earing. Its application ensures greater crop safety. Its nitrogen content is easily absorbed and results in immediate utilisation. Its micronutrient content improves quality and promotes the natural resilience of plants. Through its application, nutrient uptake from the soil can be increased. With its application, nutrient-deficiency diseases of plants can easily be prevented and cured. It increases plant resistance to pathogens. It provides a rapid supply of nutrients during the growing season.

Recommended use: Can be applied 2–3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).

ACTIVE INGREDIENT CONTENT					
N	SO ₃	Cu	Zn	Mn	
15%	5%	1.5%	0.2%	0.2%	

68

GENEZIS



















General features: A compound solution fertiliser containing nitrogen, zinc chelate and manganese chelate as active ingredients. For foliar fertilisation of arable crops and mainly maize. It can be used for both fodder and sweet corn foliar fertilisation. The nitrogen and zinc content can be easily absorbed and utilised by maize. Zinc is an important micronutrient for maize, as its absence causes poor growth and decreased yields. Because most of our soils are virtually depleted of zinc. Its use can lead to higher yield. Zinc supplementation must be an integral part of intensive maize cultivation technology!

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).

ACTIVE INGREDIENT CONTENT					
N	Zn	Mn			
15%	1.7%	0.3%			











GENEZIS OILSEED CROPS FOLIAR FERTILISER



General features: It is a composite preparation with high active ingredient content. It is recommended for the foliar fertilisation of oilseed crops, especially sunflower and rapeseed, as well as for nutrient replenishment of nitrogen and boronintensive crops and brassicas. Its nitrogen content is easy to absorb and results in immediate utilisation, its boron content ensures proper binding and oil content. Its use can lead to higher yield and higher oil content. It improves quality and promotes the natural resilience of plants. By using it, nutrientdeficiency diseases can easily be prevented and cured. It increases plant resistance to pathogens.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).

ACTIVE INGREDIENT CONTENT					
N	SO₃	В			
15%	5%	2%			













GENEZIS

69

GENEZIS FOLIAR FERTILISERS

GENEZIS NITROKEN FOLIAR FERTILISER



General features: Genezis Nitroken is an effective solution for the foliar fertilisation of sulphur and nitrogen-intensive arable and horticultural crops. Foliar fertilisers generally have high nitrogen and sulphur content. It improves plant condition and resistance to diseases. It boosts yield and improves quality. Its sulphur content improves nitrogen uptake efficiency, and promotes protein and oil formation. By applying it, the nutrient uptake from the soil can be increased.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).









ACTIVE INGREDIENT CONTENT SO₃ 53%

GENEZIS MIKRAMID



General features: The active ingredients it contains are easily absorbed through the leaves of the plants, therefore, it can be used in the form of a soil, top and foliar fertiliser as a source of nitrogen and micronutrient sup-

Recommended use: 100-200 kgs/hectare as soil and top dressing applied as usual concurrently with the

ply. It dissolves quickly in water without any residues. It

can be mixed with almost any herbicide and fertiliser

without any damage to it. A mixing test is always rec-

ACTIVE INGREDIENT CONTENT					
Nitrogen	Micronutrient				
45%	0.3%				

70

application of nitrogen fertiliser. Suggested strength of the solution as foliar fertiliser (3 to 6 times during the growing season):



- Cabbage, celery: 0.8-1.0 m/V%
- Maize: 0.4–0.6 m/V%
- Potato: 0.8–1.6 m/V%
- Sugar beet: 2.0–4.0 m/V%
- Grapes / fruit: 0.6–1.0 m/V%
- Meadow-pasture: 1.0-1.5 m/V%

Advantages of the product: The amide-bound nitrogen absorbed via the roots and foliage directly integrates in the amino acids that play an important role in growth. The trace elements accelerate chlorophyll formation and crops will turn green. Rapid immediate effect in case of nitrogen deficiency symptoms. May be applied on all soil types. It dissolves perfectly in water. It can be spread together with plant protection treatments, in a single application. It promotes the rapid initial development and winter hardiness of oily plants and winter wheat. The micronutrient supplemented version helps prevent deficiency symptoms. Its active ingredients dissolve well in water, ensuring excellent utilisation.

Recommended crop: Recommended for all arable and horticultural crops.











GENEZIS NITROSPEED AND NITROSPEED PLUS

General features: A nitrogen-dominant liquid fertiliser solution. Multiple nitrogen formulations (amide nitrate ammonia) promote even, rapid plant growth. No washing in precipitation is required. It provides nitrogen supply even during dry periods. Its meso-nutrient content helps maintain nutrient harmony, resulting in better utilisation of the nitrogen form. It is excellent for promoting the favourable development of plant growth processes. It helps to overcome environmental stress and to increase plant resilience. It can also be used as an additional top dressing and, to a lesser extent, as a foliar fertiliser. Its quickly absorbable nitrogen and meso- nutrient content improves plant condition

and resistance to diseases. It boosts yield and improves quality. Its sulphur content improves nitrogen uptake efficiency, and promotes protein and oil formation. Magnesium is a component of chlorophyll. It also affects plant hormones and enzymes. It can be applied alone or mixed with pesticides simultaneously. It has an excellent adjuvant effect and enhances the absorption and effectiveness of plant protection products. It is recommended to always carry out a mixing test. In addition to the above state of development, it is recommended to apply as a foliar fertiliser in all crops at a dose of 4-5 I/ha with a volume of 250-300 litres of

ACTIVE INGREDIENT CONTENT GENEZIS NITROSPEED					
Nitrogen (N):	23%				
Of which ammonia-nitrogen:	1%				
Amide-nitrogen:	20%				
Nitrate-nitrogen:	2%				
Sulphur trioxide (SO ₃):	5.3%				
Magnesium (MgO):	3%				

GENEZIS



GENEZIS NITROSPEED PLUS						
Nitrogen (N):	23%					
of which ammonia-nitrogen:	1%					
amide-nitrogen:	20%					
Nitrate-nitrogen:	2%					
Sulphur trioxide (SO ₃):	5.3%					
Magnesium oxide (MgO):	3%					
Zinc (Zn)	0.2%					
Manganese (Mn):	0.1%					
Molybdenum (Mo):	0.01%					

ACTIVE INGREDIENT CONTENT











RECOMMENDED USE OF GENEZIS NITROSPEED AND NITROSPEED PLUSZ Recommended dosage Recommended dosage as Recommended application Crop as foliar fertiliser supplementary top dressing 20-25 l/ha 5 I/ha From the start of tillering Cereals 5 I/ha When the flag leaf expands 20-25 I/ha 5 I/ha At the rosette stage Rapeseed 5 I/ha Hidden yellow bud stage 20-25 l/ha 5 I/ha At the 4-6 leaf stage Maize 5 I/ha At the beginning of tasselling 20-25 l/ha 5 I/ha At the 5-6 leaf stage Sunflower 5 I/ha Until starbud stage 20-25 l/ha 5 I/ha 4-6 leaves Sugar beet 5-7 l/ha At row closure

71

GENEZIS MIKROMIX PRODUCT FAMILY

Recommended also for arable and horticultural crops

General features: MIKROMIX preparations can prevent and cure plant diseases caused by micronutrient deficiency. The MIKROMIX micronutrient concentrate contains the nutrients in a chelated form, as a result of which the plants can utilise the ensure maximum supply to plants.

be applied 2–3 times during the growing season at a dose of 2-6 l/ha.

Advantages of the product: Micronutrient deficiency diseases are eliminated quickly and effectively because the ingredients are chelated in the form that is most easily absorbed by the plants. The nutrient ratio of the applied micronutrients almost immediately and plant-specific forms is tailored to the micronutricompletely. The chelating molecule is included to ent requirements of each plant species. They increase yield volume and improve its quality. Their use increases the resistance of plants to dis-Recommended use: With foliar fertilisation, it can eases and improves their condition. Its application also allows for more efficient water utilisation and increased drought tolerance.



MIKROMIX A - copper



MIKROMIX A - zinc



MIKROMIX A - manganese



MIKROMIX A - cereals



MIKROMIX A - maize



MIKROMIX MIKROMIX A - oilseed crops

GENEZIS MIKROMIX PRODUCT FAMILY

ACTIVE INGREDIENT CONTENT								
А	ctive ingredient content %	В	Cu	Fe	Zn	Mn	Мо	SO ₃
MIKROMIX	A - copper		5%					
MIKROMIX	A - zinc				5%			
MIKROMIX	A - manganese					5%		
MIKROMIX	A - grapes / fruit	0.6%	0.1%	3%	0.4%	0.5%	0.05%	
MIKROMIX	A - vegetables / ornamental plants	0.6%	0.1%	1.5%	0.6%	0.5%	0.05%	
MIKROMIX	A - potatoes	0.4%	0.2%	0.3%	0.4%	0.9%		
MIKROMIX	A - cereals	0.4%	2%	0.5%	0.3%	0.2%		
MIKROMIX	A - maize	0.2%	0.3%		2.2%	0.2%		
MIKROMIX	MIKROMIX A - oilseed crops	1.2%	0.4%	1%	0.6%	0.2%		
MIKROMIX	A - sugar beets	1.5%	0.4%	0.8%	0.4%	0.4%		
MIKROMIX	A - leguminous crops	0.5%	0.5%		1%	1%		



MIKROMIX A - grapes / fruit



MIKROMIX A - vegetables / ornamental plants



MIKROMIX A - potatoes



MIKROMIX A - sugar beets



MIKROMIX A - leguminous crops

GENEZIS FOLIAR FERTILISERS

PÉTIBÓR EXTRA



General features: Boron is one of the most important micronutrients. Without it, the growth of shoots stops, and the growing tips die. Boron deficiency in plants causes poor binding, it often prevents flowering and results in distorted leaves.

Pétibór Extra is a modern boron fertiliser, produced on the basis of the latest research, which contains the boron nutrient in the form of a solution, as an organic compound. It is an agent that increases biochemical efficiency and meets environmental requirements. It can also be used safely in ecological and organic farming.

Agricultural trials performed by using this preparation demonstrate its efficiency, even in small doses, due to its high efficiency. It contains at least 10%

elemental boron, corresponding to a 135 g/l it re boron, i.e. 772 g boron acid/l itre concentration. Frost resistance is quaranteed to -10 °C. Any extraction of the active ingredient at a lower temperature is automatically resolved by re-heating. This feature increases storage security, even in a poorly insulated space. A clear, slightly yellowish, odourless liquid, possibly with an odour bearing a slight resemblance to ammonia. The pH of the concentrated solution is 8-8.5 which varies slightly depending on the dilution in the spray liquid.It promotes the fertilisation of flowers and increases binding. It increases sugar beet yield, sugar content and sugar extractability. It adheres well to the foliage and does not dry out for a long time, thus improving its efficiency. The boron is in the form that is most easily absorbed by plants.

Its use is effective even in small doses. To improve cost-effectiveness, it can be applied at the same time as crop protection. Symptoms of boron deficiency can be quickly eliminated during the grow-

Nutrient content: 10% (135 g/l) Boron, active ingredient: boron-ethanolamine

SUGGESTED USE AS A FOLIAR FERTILISER:					
Dose Application					
Sugar beet	3–5 l/ha	From 4 to 6 leaves until the end of August			
Sunflower	3-5 l/ha	From 3- to 4-leaf stage until one week before flowering, and after flowering			
Winter swede rape	3–5 l/ha	In autumn to increase winter hardiness, in spring from stalking to flowering			
Wheat	2–4 l/ha	From the emergence of the flag leaf until the end of earing			
Maize	2–4 l/ha	At the 3-leaf stage, then for one week before flowering			
Soy	3–5 l/ha	Before pod bonding			

ACTIVE INGREDIENT CONTENT В 10%













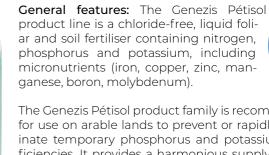
PÉTISOL PRODUCT FAMILY







ACTIVE INGREDIENT CONTENT								
	N	P ₂ O ₅	K ₂ O	ME	В			
Nitrogen rich Genezis Pétisol	14%	7%	9%	0.1%	-			
Phosphorus and potassi- um rich Genezis Pétisol	6%	10%	13%	0.1%	-			
Genezis Pétisol Tobacco	5%	7.5%	10%	0.1%	-			
Genezis Pétisol Phosphorus and Boron	8%	20%	-	-	1%			





The Genezis Pétisol product family is recommend for use on arable lands to prevent or rapidly eliminate temporary phosphorus and potassium deficiencies. It provides a harmonious supply of nutrients due to its high active ingredient content. It can be used during the growing season to establish an adequate nutrient supply.

It is especially suitable for eliminating temporary phosphorus deficiency during cool periods. Boron supplementation can be used effectively to 'cure' poorly wintered, poorly developed rapeseed and cereals in early spring.

Recommended use: Can be applied 2–3 times during the growing season at a dose of 5–10 l/ha through the leaves. Small-scale farmers are recommended to use it in a dilution of 1-2 dl of preparation/10 litres of water/100 m².

For nutrient irrigation a dilution of 0.05-0.1% (0.5-1 dl of preparation per 100 litres of water) is recommended and should be repeated according to the needs of the plant.















GENEZIS KALCINOL PRODUCT LINE

General features: Chloride-free, quick effect foliar fertilisers. Ensure rapid and effective elimination of lime deficiency diseases and the development of the optimal calcium level of the developing leaves and fruits. This is of particular importance in the case of plants that are continuously producing their crops. The uptake, transport and incorporation of calcium within the plant is a very complex process, which makes it difficult for the appropriate amount to reach the fruit in the growing season. During the growing season, it is essential to replenish calcium via the foliage on a continuous basis.

Recommended use: Vegetables For foliar fertilisation:

Recommended to use 3 to 5 times during the time of crop and berry development in a 0.1–1.0 V/V% solution (add 1–10 dl of Kalcinol or Kalcidol to 100 litres of water). Feed solution application: Recommended to use a 0.05–0.1 V/V% solution (add 0.5–1.0 dl of Kalcinol or Kalcidol to 100 litres of water). Quickly eliminates calcium and magnesium deficiency in a 0.5–1.0 V/V% solution, repeat application every 10 to 14 days and continue foliar fertilisation until the deficiency is eliminated.

Cereals, potato, sunflower As foliar fertiliser:

Recommended to use a 0.5–1.0 V/V% solution (add 5–10 dl of Kalcinol or Kalcidol to 100 litres of water) during the foliar growth stage, then after flowering.

Grapes, fruits As foliar fertiliser:

Recommended to use a 0.5–1.0 V/V% solution (add 5–10 dl of Kalcinol or Kalcidol to 100 litres of water) after flowering, then during the growth stage for 4 to 5 times.



Advantages of the product: It enhances root activities by supplying plants with nutrients which they can quickly absorb when the root system of the plant has limited capability of taking up nutrients due to low soil temperature.

The calcium it contains has a beneficial effect on the carbohydrate and nitrogen metabolism of the plants and on the development of proper cell walls and enhances the plant's resistance to diseases. The magnesium it contains enhances plant chlorophyll formation and promotes photosynthesis. It eliminates relative magnesium deficiency arising from the overuse of NPK (nitrogen-phosphorus-potassium). It increases the storage life of apples and pears and prevents bitter pits and cork spots from developing. Recommended to use to prevent cracks on the ripening sweet cherry fruit and to extend the storage life of vegetables and onions. It prevents the blossom-end rot of paprika, tomatoes and eggplants arising from calcium deficiency and the internal tipburn of cabbages.

GENEZIS Kalcinol GENEZIS Kalcinol

ACTIVE INGRED	DIENT CONTENT
N	Ca
8%	12%











GENEZIS KALCIDOL

GENEZIS KALCINOL



ACTIVE INGREDIENT CONTENT						
N	CaO	MgO				
8%	9.4%	2%				













GENEZIS MAGNEMIX+S



Packaging: 10 litre carboy

ACTIVE INGREDIENT CONTENT					
Magnesium oxide	5% MgO				
Sulphur trioxide	10.0% SO₃				
Boron, water soluble	0.10% B				
Copper, water soluble	0.05% Cu				
Manganese, water soluble	0.05% Mn				
Iron, water soluble	0.05% Fe				
Zink, water soluble	0.05% Zn				
Molybdenum	0.01% Mo				

General features: It is a composite preparation with high active ingredient content. Chelated foliar fertiliser developed for the rapid replenishment of magnesium and sulphur, containing all essential microelements. Complex solution for the production of oilseeds, cereals, vegetables, fruit crops and ornamental plants. Its use can effectively increase crop safety. Its micronutrient content improves quality and promotes the natural resilience of plants. The magnesium it contains enhances plant chlorophyll formation and promotes photosynthesis. Its sulphur content improves nitrogen uptake efficiency, and promotes protein and fatty acid (oil) formation. By applying it, the nutrient uptake from the soil can be increased.

Recommended use: 2-4 times during the growing season at a concentration of 0.5-2%. Recommended for use as foliar fertiliser at a dosage of 10-15 litres/ha, in the hobby garden at a concentration of 1-2% (1-2 dl/10 l water), for feed solution application: the use of a 0.1-0.05% solution is recommended.

Recommended crop: Use in oilseeds, cereals, vegetables, fruit crops and ornamental plants.















GENEZIS MAGNESOL+S



Packaging: 10 litre carboy

General features: Foliar fertiliser with high active ingredient content, specially developed for the targeted supplementation of two macroelements: magnesium and sulphur. The magnesium it con-

ACTIVE INGREDIENT CONTENT					
Magnesium oxide	7 % MgO	4.2% Mg			
Sulphur trioxide	14.0% SO ₃	5.6% S			

tains enhances plant chlorophyll formation and promotes photosynthesis. Its use can correct relative magnesium deficiencies resulting from high potassium content. Its sulphur content improves nitrogen uptake efficiency, and promotes protein (gluten) and fatty acid (oil) formation. By applying it, the nutrient uptake from the soil can be increased.

Recommended use: 2-4 times during the growing season at a concentration of 0.5–2%. Recommended for use as foliar fertiliser at a dosage of 10-15 litres/ha, in the hobby garden at a concentration of 1–2% (1–2 dl/10 l water), for feed solution application: the use of a 0.1-0.05% solution is recommended.

Recommended crop: Use in oilseeds, cereals, vegetables, fruit crops and ornamental plants.













GENEZIS

GENEZIS SAVASTRENE FE (GRANULAR IRON CHELATE)

Savastrene

Packaging: 0.6 kg, 3 kg and 10 kg buckets

General features: The chelating agent - EDTA makes the iron more usable for the plant. Apply to prevent iron deficiency diseases and cure already present deficiency diseases in crops. The micro-granule format preparation should be dissolved in water while stirring constantly, then spread on the plant or area to be treated. It can be

continuously fed via an irrigation system, e.g., by drip irrigation. It can be mixed with other fertilisers in a fertiliser solution.

Recommended use: Foliar fertilisation: a 0.5–1% (0.5-1 g/litre) solution.

Feed solution application: Average dose: 0.005-0.05 % (0.05-0.5 g/litre). For formulating the nutrient solution with the required concentration.

For soil fertilisation: Cut flowers, vegetables: For prevention: 2-10 g/m2. To remedy iron deficiency: 5-15 g/m2 dissolved in 4-6 litres/m2 of irrigation water. For drip irrigation in a concentration of 0.005-0.02 % (0.05-0.2 g/litre) or as per professional advice. Roses: 5-15 g/plant, dissolved in 5 to 10 litres of water per plant and irrigated in. Grape: 10-30 g/ vine, depending on the age of the vine and the extent of the iron deficiency, dissolved in 8 to 10 litres of water, irrigated in around the vine. Fruit trees: 20-50 g/tree, dissolved in 10 to 50 litres of water and irrigated in the dripline area of the tree.

ACTIVE INGREDIENT CONTENT

Fe

13%















GENEZIS SAVASTRENE FE (SOLUTION)



Packaging: 10 litre carboy

General features: A fertiliser solution with organically bound iron chelate. Contains stable iron chelate.

ACTIVE INGREDIENT CONTENT

3.0%

It is particularly suitable for the prevention of iron deficiency diseases and for the elimination of already established deficiency diseases. Iron as a structural component is important in photosynthesis, respiration, oxidation and reduction processes.



Recommended use: The preparation is suitable for both foliar or soil application. Due to its special chelating form, it remains stable and effective for a long time even in extreme pH ranges, thus providing long-range protection from iron deficiency. Savastrene Fe provides good shoot growth and healthy, fresh foliage.

By applying it, a 10-30% yield surplus can be

















GENEZIS PÉTI KOMPLEX PRODUCT LINE

GENEZIS PÉTI KOMPLEX PRODUCT LINE

General features: Chloride-free, solid, 100% water-soluble, sediment-free fertiliser line. Contains all nutrients necessary for the balanced development of plants. All their components can be absorbed quickly by the plant. Their micronutrient content is chelated, so they do not bind to the soil particles, they are utilised without loss. They can also be used in irrigation fertilisation technologies.

Recommended use: For feed solution application and foliar fertilisation of vegetables and ornamental plants. Recommended amount in a concentration of 0.05-0.1% according to the needs of the plant. It can also be used as a foliar fertiliser in a concentration of 0.5-1%.

82

Recommended crop: Mainly for feed solution application and

foliar fertilisation, for ornamental plants and vegetables grown in a polytunnel. Can also be used for open field ornamental plants and vegetables, for cereals, potatoes, vineyards and orchards.













ACTIVE INGREDIENT CONTENT Total Nitrogen NH₄-N NH₂-N P₂O₅ K₂O ME Péti Mix Starter 6% 9% 30% 15% 0.2% 15% 14% 7.5% Péti Complex I 6.5% 7% 21% Péti Complex II 10% 6% 4% 25% Péti Complex III 15% 1.2% 13.8% 30%





GENEZIS NUTRITIVE SOLUTIONS

GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS NUTRITIVE SOLUTIONS

GENEZIS PÉTISOL PRODUCT LINE (1-LITRE NUTRIENT SOLUTIONS) **GREENING VITAMIN - SAVASTRENE FE-13**













ACTIVE INGREDIENT CONTENT Genezis Pétisol P₂O₅ K₂O ME General 5% 5% 0.1% 5.5% 5.5% 5.5% 0.1% Geranium 4% 0.1% Lawn 3% 3% 4% 0.1% **Evergreens** House plant 7% 4% 5% 0.1% 6% 4.5% 6% Vegetables 0.1% Citrus 5% 3.5% 7% 0.1% Flower Garden 5% 3.5% 7% 0.1% Orchid and Bromelia 3.5% 5% 7% 0.1%

General features: Modern foliar fertilisers developed for special crops. Their composition is adapted to the nutrient needs of the given plant. Quick effect, chloride-free foliar fertilisers. Can be used to cure deficiency diseases quickly and effectively and to establish the optimum nutrient levels in the developing leaves and crop.

Recommended use: Ln a home garden, 1-2 dl of the preparation dissolved in 10 litres of water is enough for 100 m². For nutrient irrigation a dilution of 0.05-0.1% (0.5-1 dl of preparation per 100 litres of water) is recommended and should be repeated according to the needs of the plant. Spreading should be followed by further thorough irrigation.

Packaging: 1 litre bottle













vitamin Savastrene Fe-13%

GENEZIS

Zöldítő

Packaging: 100 gram pack

Recommended use: Foliar fertilisation: dissolve 0.5-1 tablespoons (5-10 g) of granules in 10 of water, stirring constantly, and apply to the foliage of the plant with a handheld or backpack sprayer.



Feed solution application: Dissolve 0.5 tablespoon (5 g) of salt in 10 litres of water and apply at the base of plants. Never fertilise foliage in sunny weather, choose the morning and early evening hours instead.

Recommended crop: For ornamental crops, since most ornamentals are very sensitive to micronutrient deficiency, which reduces their ornamental value. For vegetables crops, it ensures adequate iron supply. Use in vineyards and orchards, for growing and maintaining a healthy, abundant crop.

ACTIVE INGREDIENT CONTENT

Fe

13%





















GENEZIS GREEN MAX

GENEZIS Green Max

Packaging: 5 kg bag, 10 kg bag

General features: Genezis Green Max is a granulated nitrogen fertiliser with a high liming material content. It can be applied as both basal and top dressing to supply nitrogen, calcium and magne-

Grain size between 2.5 and 6.3 mm. Its grain solidity is high, its grain size is uniform; its grains are almost completely spherical.

Advantages of the product: Green Max is a type of fertiliser with an outstanding amount of nitrogen with liming material, which contains 159 kgs of

nitrogen, 116 kgs of magnesium oxide and 576 kgs of liming material (calcium oxide) per tonne. The high amount of calcium it contains increases pH value! The liming material improves soil structure and pH levels (reduces and eliminates soil acidity and adds magnesium). It increases soil productivity and nutrient deposition/utilisation and the stress resistance of the plants (higher resistance to drought and diseases). Therefore, it is highly recommended for acidic soils and crops requiring calcium and magnesium in high amounts. By applying this fertiliser, the amount of phosphorus that can be absorbed from the soil can be increased by up to 20%! There is no limit on selling it in farm shops and to urban residents as its nitrogen content remains below 16%.

Recommended use: Recommended for all arable and horticultural crops and vineyards. For basal dressing: 200-600 kgs/ha (20-60 dkg/10 m²) applied and worked in prior to sowing. As a starter fertiliser: 200-350 kgs/ha 20-35 dkg/10 m² applied simultaneously with sowing.

For top dressing: 300-900 kgs/ha (30-90 dkg/10 m²) applied in 2–3 portions.

Recommended crop: All arable and horticultural crops (primarily plants with a high magnesium and calcium demand: potato, sugar beet, perennial legumes, maize, rapeseed, cereals such as oats), ornamental plants, lawn-turf, grassland.

ACTIVE INGREDIENT CONTENT Nitrogen (N): 15.9% 16.1% CaO: 11.6% MgO:















GENEZIS SPECIAL LAWN NPK FERTILISER



Packaging: 5 kg bag, 5 kg bucket

General features: Due to its balanced composition and micronutrient content, Genezis Special NPK Lawn Fertiliser ensures an excellent, healthy green lawn throughout the growing season. The appropriate micro-, meso- and macronutrients stimulate the growth and development of the plant. It provides a healthy and fresh-looking green surface.

ACTIVE INGREDIENT CONTENT							
N	P ₂ O ₅	K ₂ O	CaO	MgO	SO ₃	Fe	
10%	5%	10%	9.48%	6.64%	25.26%	1%	

Advantages of the product: Its main active ingredients are nitrogen, potassium, phosphorus, in addition to iron, calcium and magnesium, which nourish the grass, make it more resistant to environmental influences and render its green colour more vivid. Its nitrogen content makes the grass grow and regenerate quicker.

Recommended use: It is excellent for ensuring a healthy greencover in lawns, grasses, football pitches andgolf courses. As the most intensive growth period of grass is in the spring, the best effect can be achieved when using this preparation 2 or 3 times in this period and during the growing season. The preparation should be scattered evenly on the lawn after dry and dead plants have been removed. This preparation can be used from early spring until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing season. To achieve the optimal effect, we recommend the even application of 5 kg of fertiliser on 150-200 m². After application, it is advisable to water the lawn surface (with a min. water amount of 10 l/m^2).















GENEZIS

GENEZIS SPECIAL GARDEN VEGETABLE NPK FERTILISER

GENEZIS Speciális Kerti Zöldség műtrágya

Packaging: 10 kg bag

General features: With its balanced composition and micronutrient content, the Genezis Special Garden Vegetable NPK fertiliser provides an excellent, harmonious supply of nutrients to plants throughout the vegetation period. It increases yield volume and the period of durability and improves quality and nutritional values. The special composition of micro-, meso- and macronutrients stimulates the growth and development of the plant. This preparation can be used from early spring

ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K₂O	CaO	MgO	SO₃	Fe
10%	5%	10%	9.48%	6.64%	25.26%	1%

until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing season. Its main active ingredients are nitrogen, potassium, phosphorus, and it also contains iron, calcium and magnesium, which nourish the plants, make them more resistant to environmental influences and make them grow stronger, bloom and provide a more plentiful crop. Our plants can take up nutrients as they need, without excessive nitrate storage in the plant. Due to its calcium and magnesium content, it increases cell solidity, the occurrence of physiological disturbances become less frequent, and thus the produce stores better.

Recommended use: As the most intensive growth period is in the spring, the best effect can be achieved when we use this preparation 2 or 3 times in this period and during the growing season. The preparation is applied to the roots of the plants, evenly distributed. To achieve the optimal effect, we recommend evenly spreading 5 kg of fertiliser on 150-200 m² and 10 kg of fertiliser on 300-400 m². After using this fertiliser, mixing or watering in is necessary (with a min. of 10 l/m²).















GENEZIS SPECIAL FLOWER GARDEN NPK



Packaging: 5 kg bag

General features: Due to its balanced composition and micronutrient content, Genezis Special Flower Garden NPK fertiliser provides excellent and balanced nutrition to plants during the entire growing season.

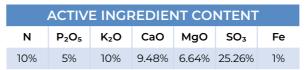
It increases yield volume and the period of durability and improves quality and nutritional values. The appropriate micro-, meso- and macronutrients stimulate the growth and development of the plant. This preparation can be used from early

spring until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing

Advantages of the product: Its main active ingredients are nitrogen, potassium, phosphorus, and it also contains iron, calcium and magnesium, which nourish the plants, make them more resistant to environmental influences and make them grow stronger, bloom and provide a more plentiful crop.

Our plants can take up nutrients as they need, without excessive nitrate storage in the plant. Due to its calcium and magnesium content, it increases cell solidity, the occurrence of physiological disturbances become less frequent, and thus the produce stores better.

Recommended use: As the most intensive growth period is in the spring, the best effect can be achieved when we use this preparation 2 or 3 times in this period and during the growing season. The preparation is applied to the roots of the plants, evenly distributed. To achieve the optimal effect, we recommend evenly spreading 5 kg of fertiliser on 150-200 m² and 10 kg of fertiliser on 300-400 m². After using this fertiliser, mixing or watering in is necessary (with a min. of 10 l/m2).

















GENEZIS

PETI LAWN FERTILISER FOR MOSSY LAWNS

GENEZIS Péti Gyepműtrágya timohásodott gyepek ápolására veret résere 3 kg

Packaging: 3 kg bag

90

General features: The preparation contains ferrous sulphate, which kills moss species quickly and effectively. We also recommend ventilating the lawn. Recommended use: Can be used in the amount

ACTIVE INGREDIENT CONTENT			
N	Cu	SO ₃	Fe
7%	0.25%	8.5%	1%

of 150–250 g/m² (20 m²/bag) for nutrient replenishment of mossy lawns and greens. As the most intensive growth period of grass is in the spring, the best effect can be achieved when using this preparation 2 or 3 times in this period and during the growing season.



The treatment should be carried out post-emergence, in the intensive growth state of the moss species, after mowing the lawn.

The preparation should be scattered evenly on the lawn after dry and dead plants have been removed. Thorough watering of the treated surface is recommended 2–3 days after application (with a min. water amount of 10 l/m²). The effect of the preparation is visible immediately after watering (10 mm.), in the reddish-brown and black discolouration of the moss. The soil conditioning agent takes effect very quickly.

Experiments have shown that the moss-killing effect of the preparation is very effective.















SPECIAL AUTUMN LAWN FERTILISER



Packaging: 5 kg bucket

General features: Fertiliser for general use on lawns, turfs and other horticultural crops. A balanced fertiliser with phosphorus and potassium content, recommended for autumn and early spring basal dressing.

ACTIVE INGREDIENT CONTENT			
P ₂ O ₅	K₂O	CaO	MgO
10%	20%	14.2%	9.9%

Recommended use: To achieve the optimal effect, we recommend evenly spreading 5 kg of fertiliser on 150–200 m2. After spreading, it is advisable to water the lawn surface. The preparation should be scattered evenly on the lawn after dry and dead plants have been removed. Thorough watering of the treated surface is recommended after application (with a min. water amount of 10 l/m2). To replenish all types of lawns with nutrients in the autumn, to prepare them for winter weather.

- strengthens cell walls,
- the plant will be more resistant to winter weather
- a well overwintered, strengthened lawn is less prone to weeds and moss in the spring
- ensures a bright, fresh lawn surface.











ornament

IEZIS /

GENEZIS NPK 8: 15: 15

GENEZIS

Packaging: 5 kg bag, 10 kg bag

General features: A complex fertiliser that can be used as a general spring and autumn basal dressing for all horticultural crops (for chloride-sensitive crops, it must be applied no later than 2 weeks before planting). The active ingredients dissolve well in water. It is primarily recommended for crops with high potassium demand and for soils with low potassium content.

Advantages of the product: Its active ingredients disperse well in water, therefore it can be spread both in the autumn and in springtime. Fertiliser with a medium amount of nitrogen and a high amount of phosphorus and potassium.

Recommended use: Suitable for fertilising horticultural crops, vegetables, fruits and ornamental plants in smaller gardens. For basal dressing of any arable and horticultural autumn or spring crop in autumn and early spring in a dose of 300-500 kg/ha. To achieve the optimal effect, we recommend evenly spreading 10 kg of fertiliser on 300-400 m2.



Packaging: 5 kg bag, 10 kg bag

General features: Can be used as a general spring and autumn basal dressing fertiliser for all horticultural crops.



Advantages of the product: Its active ingredients disperse well in water, therefore it can be spread both in the autumn and in springtime.

GENEZIS NPK 0: 10: 20 (PK)

Recommended use: Primarily for crops with a high potassium demand where N application is notjustified, or is recommended for soils with low potassium content. For any arable and horticultural autumn or spring crop. Suitable for fertilising horticultural crops, vegetables, fruits and ornamental plants in smaller gardens. For basal dressing in autumn and early spring, 300-500 kgs/ hectare as per crop. To achieve the optimal effect, we recommend evenly spreading 10 kg of fertiliser on 300-400 m2.

ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K ₂ O	CaO	MgO	SO₃	В
8%	15%	15%	11.87%	2.62%	16.74%	0.05%

92















ACTIVE INGREDIENT CONTENT P_2O_5 K,O CaO MgO 20% 18.33% 9.03% 10%













COST EFFECTIVE SOLUTIONS BY GENEZIS FOR INTENSIVE GRAIN FARMING!

GENEZIS PRODUCT RANGE FOR THE FARMER'S BENEFIT!

PROVEN PREPARATIONS, RECOGNISED TECHNOLOGY FOR A TOP CLASS MAIZE CROP!



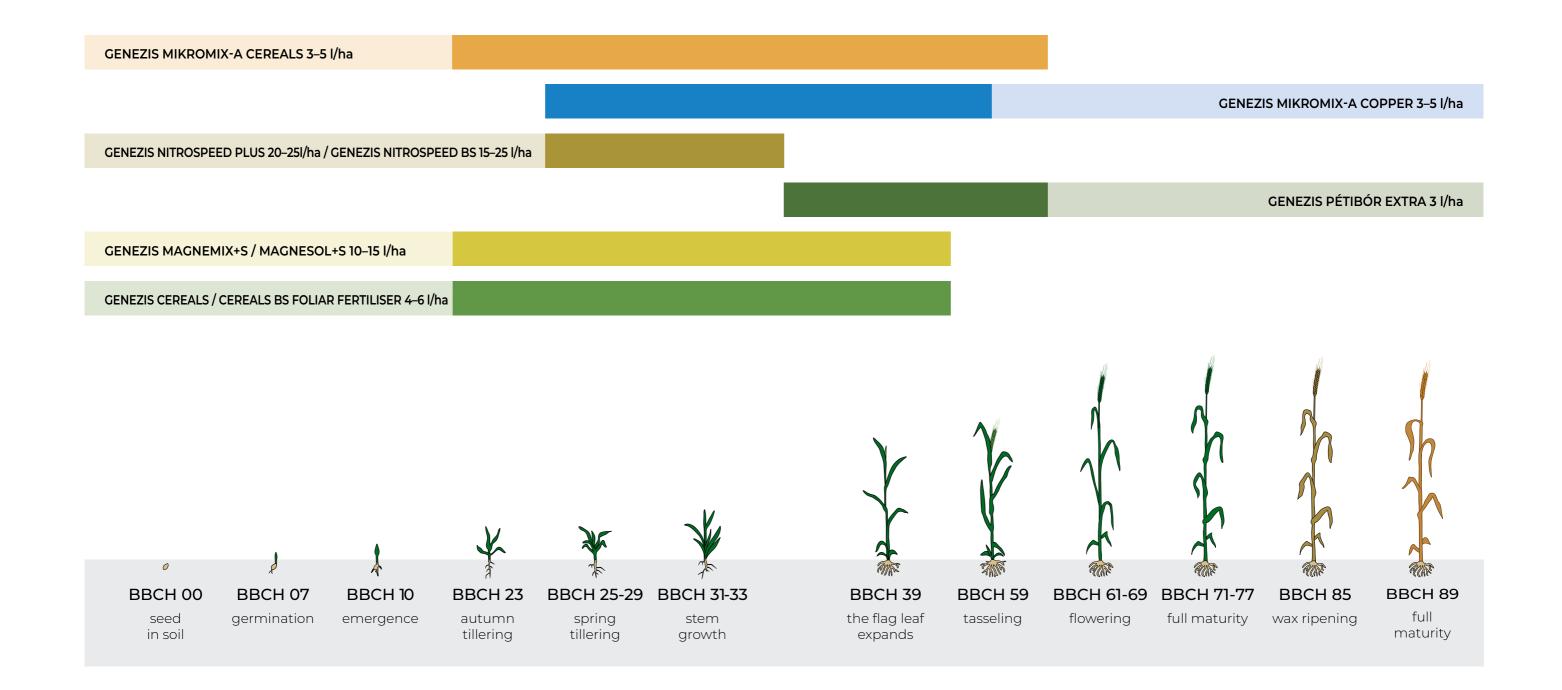
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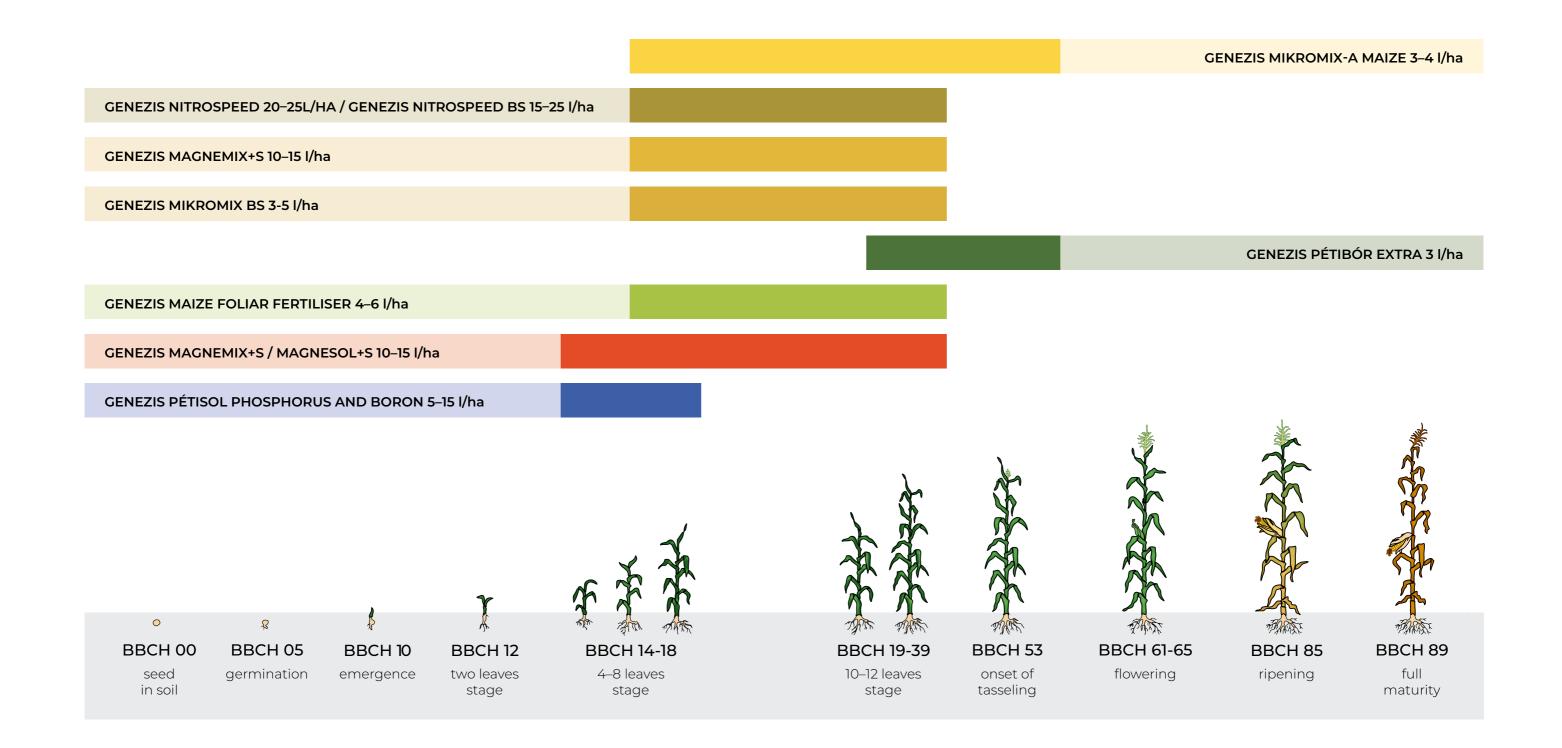


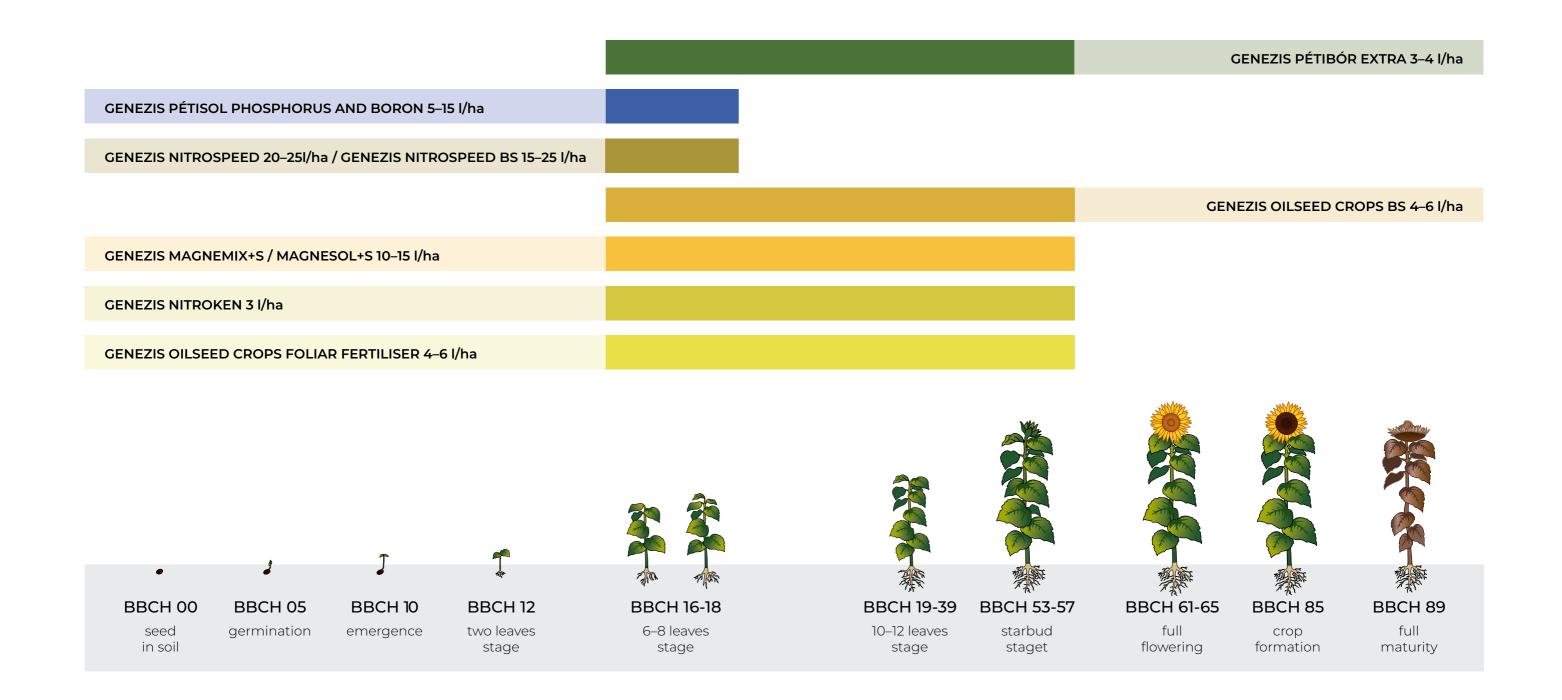


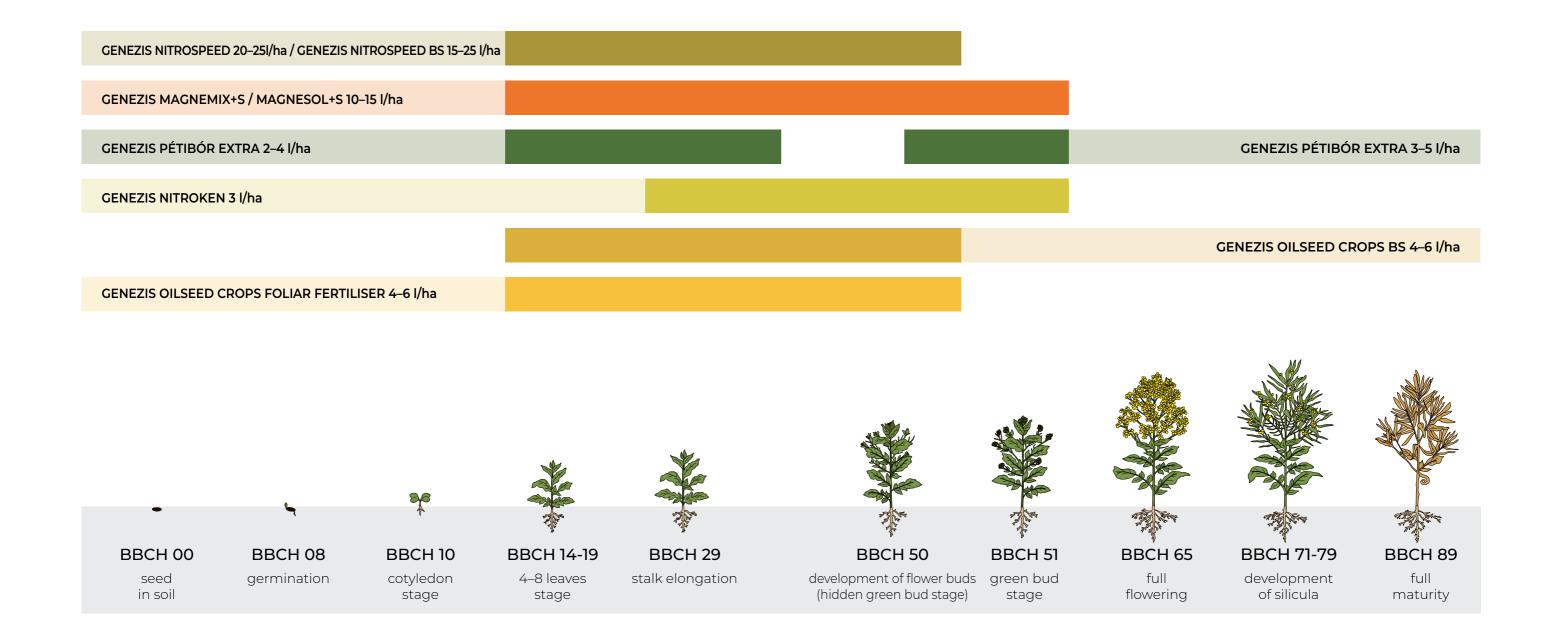


For more information please contact the sales representatives of **Genezis Partner Network!**





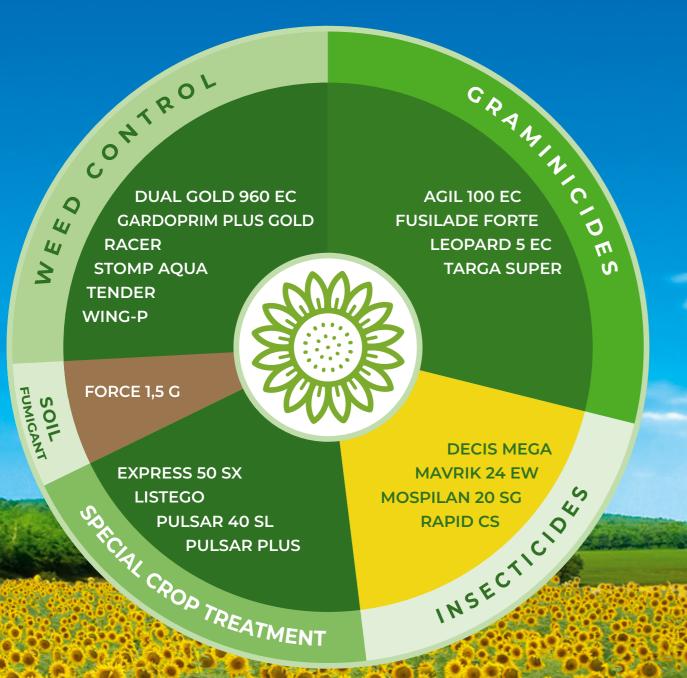


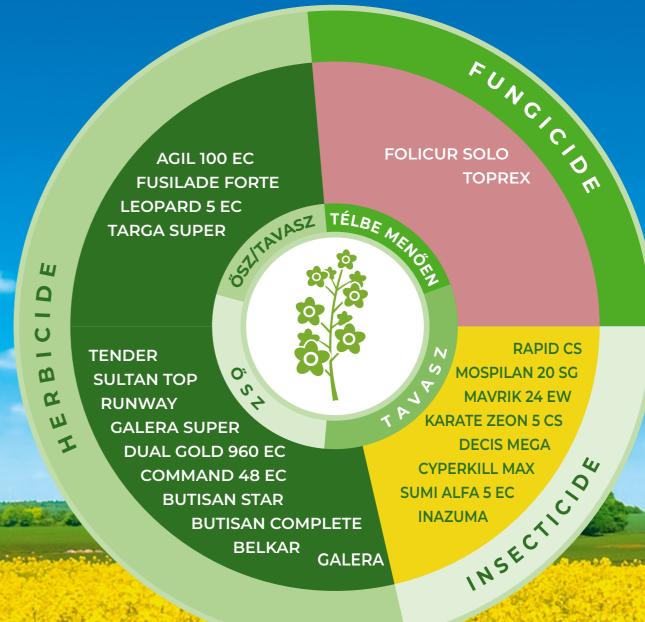


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WIDE RANGE OF HERBICIDES, FUNGICIDES, INSECTICIDES















HANDLING AND STORAGE GUIDE

The following storage conditions generally apply to all Genezis fertilisers.



106

Never store ammonium nitrate fertiliser (AN 34%) in bulk!

Do not store fertiliser in bulk outdoors!

Recommendations for outdoor storage:



Avoid storing fertiliser outdoors.

Protect the fertiliser from direct sunlight, hot objects and surfaces, do not allow the temperature within the storage area to rise above 32 °C.

The following storage conditions apply to all Genezis fertilisers. To prevent the infiltration of moisture and other contaminants, the fertiliser bags should be covered with a properly secured, clear, waterproof cover.

STACKING OF PACKAGED GOODS:

Pallet product:

Recommendations for indoor storage:

The storage facility should be a closed and secure building made of non-combustible material (concrete, brick); weatherproof, with an indoor temperature between 5–30 °C; dry, free of dust and dirt, its substrate should be a dry and smooth surface; the surfaces in contact with the fertiliser should be well insulated; the building should be well ventilated.

The fertiliser storage area must be protected from unauthorised access!

Never allow smoking or the use of open flame within the fertiliser storage area!





The stack should be no more than 2 rows high.

The middle foot of the pallets in the top rowshould not be placed between two pallets of the row beneath;

it should always be fully supported by the row below it

Big-Bag products:



The bags may be stacked in a maximum of 3 rows.

Big-Bags placed on pallets should not be stacked higher than 2 rows.

For the lifting of Big-Bags, use only the tools designed for that purpose.

Never move the bags with a forklift or other lifting devices

Environmental regulations:

Safety regulations:

Handling products with damaged packaging:

Clean up spilled fertiliser as soon as possible and place it in a clean, labelled, closed bag/container.

Store separately on a separate pallet. Contaminated fertiliser must be disposed of in accordance with the regulations for hazardous waste.

Regulations regarding fertiliser products

Decree No. 36/2006. (V.18.) of the Ministry of Agriculture and Rural Development concerning the authorization, storage, marketing and utilization of yield increasing materials.

Decree No. 37/2006. (V.18.) of the Ministry of Agriculture and Rural Development on the placing on the market and control of fertilisers marked "EC fertiliser".

*Regulation (EU) 2019/1009 (05.06.2019) laying down rules on the making available on the market of EU fertilising products.

The storage instructions should be easily accessible.

108

Government Decree 219/2011 (20 October) on Protection Against Major Accidents Related to Dangerous Substances.

Decree of the Minister of Interior 54/2014 (5 December)

BM on the National Fire Safety Code (NFSC) Act CEXXXV of 2012 on Wastes.

Always keep the warehouse clean and tidy. Keep traffic routes (Section 193 of the NFSC) and the preparation area for fire fighters (Section 66 of the NFSC) clear and accessible. Fertilisers containing ammonium nitrate (AN 34% and Pétisó) may only be stored in places where the water pressure

specified in Table 1 of Annex 8 to the NFSC for extinguishing fire is always available.

Ammonium nitrate-based fertilisers (AN 34% and Pétisó) belong to the 'moderately flammable' fire hazard class. Urea is 'non-flammable'. Only water should be used to extinguish a fire caused by the decomposition of fertilisers. Foam, carbon dioxide or powder extinguishers are therefore ineffective during firefighting and can only be used to extinguish other fires in the vicinity of the fertiliser.

Disaster management rules -For the storage of AN fertiliser (AN 34% N) (According to Government Decree No. 219/2011.

- Storage quantity ≥ 1,250 tonnes (lower limit) - A safety analysis must be prepared.

- Storage quantity ≥ 5,000 tonnes (upper limit) - A safety report must be prepared. (If the ammonium-nitrate fertiliser held in the store fails to meet the quality requirements, then the limit quantities described above are 10 and 50 tonnes, respectively.)

Storage quantity ≥ 312.5 tonnes (operation below threshold) the activity is subject to a permit issued by the disaster management authorities in the same way as described above.*

*To obtain the disaster management permit, the plant identification datasheets required by the decree must be completed and sent to the disaster management authorities.

Based on the submitted documents and an onsite inspection, the authorities will decide whether it requires that a Serious Disaster Recovery Plan (SDRP) be prepared and submitted. Following the submission of data or the inspection of the SDRP (if required), the authorities will decide on issuing the disaster management permit.

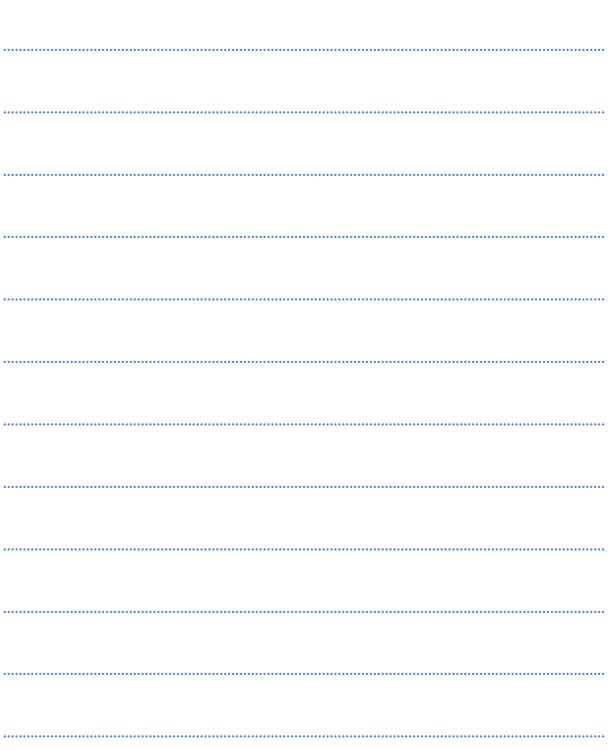
Click on the link below for more information:

https://genezispartner.hu/dokumentumok-nyomtatvanyok/?n=t%C3%Alrol%C3%Alsi&c=utmutato



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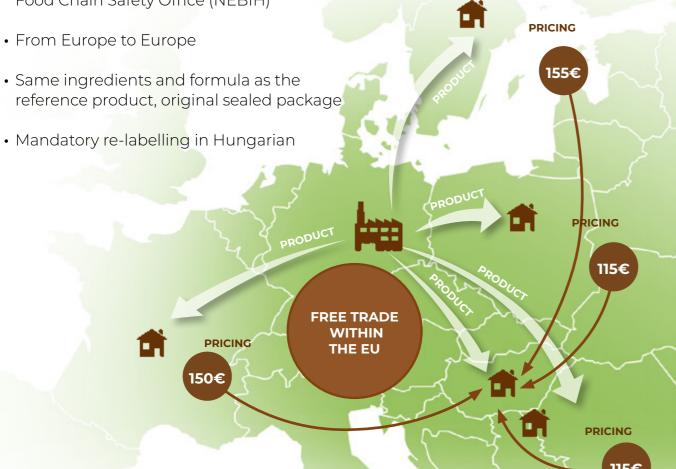


Genezis plant protection products to tackle the plant protection issues of all major arable crops!

The Genezis plant protection product range offers a competitive solution to the plant protection issues of arable crops:

- 81 concurrent import licenses for 60 types of preparations, 48 active parallel import licenses from surrounding countries
- Wide range of Genezis fungicides, insecticides, herbicides and soil fumigants

• Statutory parallel import and distribution license issued by the National Food Chain Safety Office (NÉBIH)





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Why choose us?

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