

## PRODUCT DATA SHEET

### ENERGEN AKTIVÁTOR

EGT system spol. s r.o.

U Cukrovaru 1669/4B, PSČ 747 05, Opava, Kateřinky

#### PREPARATION:

#### PRODUCER:

#### CONTENT:

Humic substances and their salts 13 %

Mixture of oligopeptides and amino acids in % min. 10 %

pH 6.5 to 8.5.

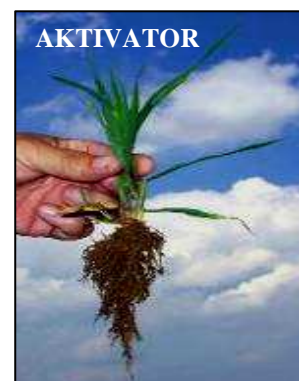
**ENERGEN AKTIVÁTOR** further contains wetting agent with adhesive effect, extracts from seaweed - adaptogens and other substances facilitating the creation of root system and lateral branches. It is not supposed to substitute basic fertilization. The content of hazardous elements complies with the limits in mg/1kg: Cd 1, Pb 10, Hg 1, As 10, Cr 50 stipulated by law in the Czech Republic.

#### EFFECTS:

- **Promotes the creation of fine and dense root hairs.** In consequence, this enhances the use of moisture and nutrition.
- **Stimulation promoting the growth and formation of yield.** Creates the conditions for better crop.
- **Induces the creation of lateral sprouts and branches.** As a result, there is increase in the number of blooms on a plant. The increase of yield through higher number of blooms and seeds on a plant must always be connected with quality nutrition so that the plant can utilise it for the increase of the crop.
- **ADAPTOGENIC EFFECT**
  - **Coldness** – allows the plants treated with the preparation function in temperatures by 2 to 3 degrees Celsius lower if compared to untreated control plants.
  - **Drought** – helps retain by 15 to 30 % more water in plants for 4 to 6 weeks.
  - **Salting** – allows plants to grow better in salinated substrate.
  - **Increase of tolerance to mushroom diseases.**
- **Increase of the content of reserve substances** in plants (in particular, sugars ... the result is better ability of young plants of winter rape and winter cereals to resist quick coming of low temperatures at the beginning and in the course of winter.).
- **Increase of germination energy** considerably influences the speed and quality of germination. The result is balanced emergence of vegetation and high rate of photosynthesis of germinating plants. When applied to seeds, it eliminates negative effects of dressings on seeds.
- **Wetting and adhesive effect** creating coating on leaves resistant to rain. The coating receives moisture from morning dew and repeatedly doses active substances to leaves. (It is advisable to combine the preparation with nutrition, especially with elements absorbed slowly by plants – e.g. B).

#### MAIN PURPOSE:

- **For all young plants in the phase from 5 leaves.**



#### ADDITIONAL AND SPECIAL PURPOSE:

- **Recovery of vegetation** after chemical, mechanical and frost damage. The effect has been reliably tested in many cases of damage in practice.
- **Humic and fulvic substances remove herbicide shock.** With regard to their high efficiency it is recommended to apply the preparation as late as several days following the herbicide. (At the time all weeds have died off so that they are not recovered).

#### CROPS:

**AKTIVÁTOR** is designed for following crops – winter and spring cereals, winter rape, mustard, sugar beet, poppy, potato, bulbs, legume, vegetable, maize, deciduous and coniferous wood and other plants, such as hop and grapevine. **In other geographical areas, we recommend AKTIVÁTOR for young plants of soya, rice, cotton plant and other plants in the initial phase of growth.** Further information and methodologies to the product are available on [www.energen.info](http://www.energen.info) and in the following table:

Rape and winter cereals.	Mustard, sugar beet, poppy, bulbs, legume, spring cereals	Maize for silaging and grain	Potato
From 3 leaves till the beginning of winter in the dose of 0.5 - 1 l/ha. 5 to 7 leaves are optimal for crop spraying.	AKTIVÁTOR in the dose of 0.5 to 1 l/ha. For young plants from emergence till the phase of 6 true leaves. It is advisable to repeat the spraying of bulbs and legume in the dose of 1.5l/ha.	AKTIVÁTOR in the dose of 0.5 to 1 l/ha. From sowing till the phase of BBCH 18.	After planting in the season between the emergence, creation of leaves and elongation growth till the phase of max. BBCH 40 – 1 application of AKTIVÁTOR in the dose of 1 l/ha .
Recovery after winter in the dose of 0.5 – 1 l/ha. (for cereals in good condition, the lower limit of recommended range applies = 0.5 l/ha.)			

#### RECOMMENDED DOSAGE:

**Basic dose 1 litre/ha** in 100 to 300 litres of water or N fertilizer. **For cereals, we recommend the dose of 0.5 litre/ha** in 100 to 300 litres of water or N fertilizer. **For vegetation in good condition and with good reserve of nutrients, half of the dose recommended applies. The total range of recommended dosing is 0.25 to 1 litre/ha.** We only recommend max. dose of 2 litres per ha for extremely weak plants. **Risks** – plants may only be damaged if the dose 5 times higher than the maximum recommended one is applied.

#### SPECIFICATION AND RECOMMENDATIONS CONCERNING THE AMOUNT OF WATER:

- If Aktivátor is applied to plants with small leaf area, the amount of water around 100 l/ha is recommended. We thus increase the concentration of preparation falling on the leaf area. The reason is that leaf area absorbs growth regulators more quickly, sooner and in greater extent than not-yet developed root system of young plants.
- If the leaf area is sufficient (e.g. rape with 8 leaves and the diameter of leaf rosette over 12 cm), the amount of water is not the determining factor, and it may range between 100 and 300 l per ha.
- If we apply the preparation to full-grown vegetation (e.g. second half of stem elongation for cereals), we recommend to use over 250 l of water per ha. As far as dense vegetation rich in green mass is concerned, all sections of plants are better covered. And quick and steady stimulation effect results.

#### GREENHOUSE CROPS:

For inner greenhouse crops, we recommend the dose between 0.15 and 0.3 ml per m<sup>2</sup> at a dilution of 0.05 to 0.1 % (it is advisable to test higher concentrations individually – it is evident that e.g. young plant slips can withstand higher concentrations). We prefer lower repeated doses for greenhouse crops.



#### NOTICE CONCERNING PLANT NUTRITION:

The application of ENERGEN preparations shall always be accompanied by quality fertilization. The stimulation creates conditions for better yield. If the stimulation is not accompanied by good level of nutrition, the stimulation effect may not be fully utilised for the increase of yield. We assure higher return of financial means by the combination of stimulation and nutrition. The nutrition shall ensure basic level of yield, and the stimulation shall even increase this yield level. The Energen preparations with adaptogenic (anti-stress) effect shall then sustain the yield level even under unfavourable conditions (drought, coldness, salting).

#### MIXING:

The combination with liquid N fertilizers is possible. In combination with other liquid fertilizers we recommend to carry out the test of precipitation. When mixed with other preparations, full volume of water must always be used! We recommend testing the combination with pesticides (after the consultation with their producers) in small volume (e.g. in 0.1 litre). As a preventive measure, we recommend (in combination with other preparations and fertilizers) to apply the preparation within 15 hours after mixing. Do not mix with fertilizers with low pH. Substantial decrease of pH of the application solution (acidification under pH 5) would lead to gradual but reversible precipitating of humic substances. Do not mix with herbicides as the recovery of weeds may result! The aids for dosing of the preparation shall only be used for this purpose!!!. The term of protection depends on the pesticide the preparation is added to. The producer shall not be liable for any loss incurred by inappropriate use of the preparation! The product is not harmful to bees. **The instructions concerning the safety and health at work, storage, transport as well as other information are provided on the label. Full wording of the label may be found on [www.energen.info](http://www.energen.info).**

CENTRAL OFFICE:

FAX: +420 553 623 879

[energen@energen.info](mailto:energen@energen.info)

[www.energen.info](http://www.energen.info)